

# *Decoding* **IBPS PO** **2024**

## **INCLUDES**

- Vacancy Trend
- Prelims Cut Off Trend
- Education Qualification
- Age Limit
- Application Fees
- Exam Pattern
- Syllabus
- Salary
- Prelims Exam Analysis Trend
- Previous Year Papers (2021-2023)



**ഡീകോഡിംഗ് IBPS PO 2024**

**IBPS PO ഒഴിവ് ട്രെൻഡ്**

വർഷം	ഒഴിവുകളുടെ എണ്ണം
2024	4455
2023	3049
2022	6432
2021	4135
2020	4799

**IBPS PO പ്രിലിംസ് കട്ട് ഓഫ് ട്രെൻഡ്**

ചുവടെയുള്ള പട്ടികയിൽ, കഴിഞ്ഞ 4 വർഷത്തെ IBPS PO പ്രിലിംസ് കട്ട് ഓഫ് ട്രെൻഡ് നൽകിയിരിക്കുന്നു

Category Wise	2023	2022	2021	2020
ജനറൽ/ EWS/ OBC	54.25	49.75	50.5	58.75
SC	49.50	46.75	44.5	51
ST	43	40.5	38	43.5
ശ്രവണ വൈകല്യമുള്ളവർ (HI)	21.75	17.5	20.75	19.75
ഓർത്തോപീഡിക്കലി ചലഞ്ച്ഡ് (OC)	42.50	32.75	42	46
കാഴ്ച വൈകല്യമുള്ളവർ (VI)	39	24.75	37	54.25
ബുദ്ധിപരമായ വൈകല്യം (ID)	20.25	19.75	20.75	21.75

**IBPS PO വിദ്യാഭ്യാസ യോഗ്യത**

ഉദ്യോഗാർത്ഥി അംഗീകൃത സർവകലാശാലയിൽ നിന്ന് ഏതെങ്കിലും വിഷയത്തിൽ ബിരുദം നേടിയിരിക്കണം.

**IBPS PO പ്രായപരിധി**

കുറഞ്ഞ പ്രായം	പരമാവധി പ്രായം
20 വയസ്സ്	30 വയസ്സ്

## IBPS PO Application Fees

കാറ്റഗറി	ഫീസ്
SC/ST/PWD	Rs. 175
മറ്റുള്ളവർ	Rs. 850

## IBPS PO പ്രിലിമിനറി പരീക്ഷ പാറ്റേൺ

സെക്ഷനുകൾ	ചോദ്യങ്ങളുടെ എണ്ണം	മാർക്ക്	ദൈർഘ്യം
റീസണിങ് എബിലിറ്റി	35	35	20 മിനിറ്റ്
ക്വാണ്ടിറ്റേറ്റീവ് ആപ്റ്റിറ്റ്യൂട്	35	35	20 മിനിറ്റ്
ഇംഗ്ലീഷ് ഭാഷ	30	30	20 മിനിറ്റ്
<b>ആകെ</b>	<b>100</b>	<b>100</b>	<b>60 മിനിറ്റ്</b>

- ചോദ്യങ്ങളുടെ ആകെ എണ്ണം: 100
- ആകെ മാർക്ക്- 100
- ആകെ സമയം- 60 മിനിറ്റ്
- സെക്ഷൻ സമയം- ഓരോ സെക്ഷനും 20 മിനിറ്റ്
- നെഗറ്റീവ് മാർക്കിംഗ്- ഓരോ തെറ്റായ ഉത്തരത്തിനും 0.25 മാർക്ക് കുറയ്ക്കും.

## IBPS PO പ്രിലിമിനറി സിലബസ്

### Reasoning Ability

- **Seating Arrangements** – Circle/Square/Triangle/Linear/ Uncertain number of persons
- **Puzzles** - Category/Comparison/Designation/Box/Box/Day/Month/Year
- **Inequalities** – Direct and indirect
- **Syllogism** – Only a few
- **Data Sufficiency** – 2 Statements
- **Blood Relations** – Normal Blood Relation
- **Coding Decoding** – Chinese coding
- Order and Ranking
- Alpha/numeric/symbol Series
- Distance and Direction
- **Miscellaneous** – Odd one out, Word pair, Number pair, Number operation

### Quantitative Aptitude

- **Simplification and Approximation:** BODMAS, Square & Cube, Square & cube root, Indices, fraction, percentage etc.
- **Number Series:** Missing Number series, Wrong number series etc.
- **Inequality:** Linear equation, Quadratic equation, Quantity comparison (I and II) etc.
- **Arithmetic:** Ratio and Proportion, Percentage, Number System, HCF and LCM, Average, Age, Partnership, Mixture and Alligation, Simple Interest, Compound Interest, Time and Work & wage,

Pipe and Cistern, Profit and Loss & Discount, Speed Time Distance, Boat And stream, Train, Mensuration 2D and 3D, Probability, Permutation and combination etc.

- **Data Interpretation**

- a. Table DI, Missing Table DI
- b. Single Pie Chart DI and Multiple Pie Chart DI
- c. Line Chart DI
- d. Bar Chart DI,
- e. Mixed DI,
- f. Caselet

- **Data Interpretation (DI):** Table DI, Missing Table DI, Pie chart DI (single and multiple pie chart), Line chart DI (Single and multiple line), Bar chart DI, Mixed DI, Caselet (Simple table based caselet, Venn diagram based caselet, Arithmetic based caselet) etc.

- **Data Sufficiency (DS):** Two Statement data Sufficiency

### English Language

- Reading Comprehension
- Para/Sentence Completion

- **Fillers**

- a. Single
- b. Double Fillers
- c. Double Sentence

- **Sentence Based Error**

- a. 1 Sentence Correct
- b. 1 Sentence Incorrect

- **Cloze Test**

- a. Blank
- b. Replacement

- **Spotting Error**

- a. Identify The Correct Part
- b. Identify The Incorrect Part

- **Sentence Correction**

- a. Single Option
- b. Multiple Option

- Word Swap (3 words, 4 words)
- Word Rearrangement (3 Words, 4 Words)
- Sentence Rearrangement
- Sentence Improvement
- Sentence Based Errors
- Para Jumble
- Column Based
- Spelling Errors



**IBPS PO ശമ്പളം**

<b>പോസ്റ്റുകൾ</b>	<b>അടിസ്ഥാന ശമ്പളം</b>
IBPS PO	Rs. 48,480 pm

**IBPS PO പ്രിലിമിനറി പരീക്ഷ വിശകലനം ട്രെൻഡ്**

**Trend of Reasoning Ability**

Topics	2023	2022	2021	2020
Puzzle and Seating Arrangement	22	18	22	20
Syllogism	3	4	4	3
Inequality	4	4	3	5
Direction Sense	3	3	3	1
Coding Decoding	0	0	0	5
Number Based Coding	0	0	1	0
Word Pair, Meaningful Word	3	2	2	0
Odd One Out	0	1	0	0
Blood Relation	0	3	0	1
<b>Total</b>	<b>35</b>	<b>35</b>	<b>35</b>	<b>35</b>

**Trend of Quantitative Aptitude**

Topics	2023	2022	2021	2020
Data Interpretation	12	10	10	10
Caselet DI	0	5	5	5
Approximation	0	0	0	5
Quadratic Equation	5	5	5	5
Missing Number Series	5	5	5	0
Arithmetic Word Problems	13	10	10	10
<b>Total</b>	<b>35</b>	<b>35</b>	<b>35</b>	<b>35</b>

**Trend of English Language**

Topics	2023	2022	2021	2020
Reading Comprehension	8	9	10	8
Word Rearrangement	0	3	5	4
Sentence Based Error	0	5	0	0
Error Detection/ Sentence Improvement	5	0	5	5
Word Usage	3	0	0	0
Word Swap	3	3	0	0
Phrase Replacement	3	3	0	0
Find the Correct Sentence	0	0	0	4

Single Fillers	0	2	0	0
Double Fillers	3	0	0	0
Cloze Test	0	0	5	5
Sentence Rearrangement	5	5	5	4
<b>Total</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>30</b>

## IBPS PO Previous Year Questions Papers With Solutions (2021-2023)

### IBPS PO Previous Year Questions Papers With Solutions -2023

**Directions (1-8):** Read the given passage and answer the following questions based on it.

Emissions of carbon dioxide and other greenhouse gases plunged 4.6 percent in 2020, as lockdowns in the first half of the year restricted global mobility and hampered economic activity. Many hoped that this would mark the beginning of a more permanent shift downwards in emissions.

Emissions from the manufacturing and the energy sectors contributed the most to recent global increases based on updated information from the IMF's Climate Change Indicators Dashboard—a joint effort among national and international statistical organizations to provide timely data to help monitor the transition to lower carbon use.

As greenhouse gas emissions from human activities increase, they **build** up in the atmosphere and warm the climate, leading to many other changes around the world—in the atmosphere, on land, and in the oceans. While total emissions have climbed significantly above pre-pandemic levels, increases from transportation and households were more muted last year as the pandemic weighed on global mobility. This was particularly evident with the

emergence of the omicron variant in the fourth quarter of last year. The public health policy measures in many countries drove down the emissions of households and of the electricity sector.

It will be important to monitor the emissions of both of these sectors as economies fully reopen in the context of historically high fossil fuel-based energy prices. The Intergovernmental Panel on Climate Change has said that, in the scenarios they assessed, limiting atmospheric warming to the key level of around 1.5 degrees Celsius requires global greenhouse gas emissions to peak by 2025 at the latest, emphasizing that achieving this milestone is a crucial step towards controlling the severity of climate change. The new data from the climate dashboard underscore what some scientists have warned: time is running out, and we must urgently bend the emissions **curve** to achieve the necessary reductions to limit atmospheric warming.

**Q1.** According to the passage, why did greenhouse gas emissions decrease in 2020?

(a) Reduced emissions from manufacturing and energy sectors

- (b) The introduction of global policy over capping greenhouse gas emission by 30%
- (c) Global mobility restrictions and economic activity declination due to lockdown
- (d) Increased use of renewable energy sources
- (e) The emergence of the Climate Change Indicators Dashboard

**Q2.** How do greenhouse gas emissions impact the climate, as mentioned in the passage?

- (a) They lead to increased atmospheric humidity.
- (b) They reduce atmospheric warming.
- (c) They cause changes in the atmosphere, land, and oceans.
- (d) They only affect the atmosphere.
- (e) Their impact on climate is miniscule thus cannot be judged effectively.

**Q3.** What specific role does the IMF's Climate Change Indicators Dashboard play, as mentioned in the passage?

- (a) Providing funding for renewable energy projects
- (b) Monitoring the transition to lower carbon use
- (c) Assessing the effectiveness of public health measures
- (d) Predicting future global mobility trends
- (e) Advocating for stricter emissions regulations

**Q4.** What is the significance of limiting atmospheric warming to around 1.5 degrees Celsius, as mentioned by the IPCC?

- (a) It prevents all climate-related changes.
- (b) It ensures immediate reductions in emissions.
- (c) It avoids the need for future climate action.
- (d) It reduces the risk of severe climate impacts.
- (e) It guarantees economic growth.

**Q5.** What is the overarching message conveyed by the passage regarding greenhouse gas emissions and climate change?

- (a) The world is on track to achieve the necessary reductions in emissions.
- (b) The Climate Change Indicators Dashboard is the sole solution to climate change.
- (c) Greenhouse gas emissions have no significant impact on climate.
- (d) Economic growth is more important than addressing climate change.
- (e) Urgent action is needed to reduce emissions and limit atmospheric warming.

**Q6.** What does the passage suggest about the relationship between the pandemic and greenhouse gas emissions?

- (a) The pandemic had no impact on greenhouse gas emissions.
- (b) The pandemic led to an increase in emissions.
- (c) The pandemic caused a temporary decrease in emissions.
- (d) The pandemic gave a significant time to construct proper plan to curb greenhouse gas emission
- (e) The pandemic accelerated emissions from the manufacturing sector.

**Q7.** Which of the following words is the synonym of "curve" as highlighted in the given passage?

- (a) loop
- (b) pendulous
- (c) spiral
- (d) trajectory
- (e) abaft

**Q8.** Which of the following words is the antonym of "build" as highlighted in the given passage?

- (a) demolish
- (b) rejjig
- (c) extraction
- (d) malign
- (e) squeeze

**Directions (9-13):** Read each sentence to find out whether there is any grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If there is 'No error', the answer is (e). (Ignore errors of punctuation, if any).

**Q9.** A nimiety of food were (A)/ spread over the tables and was (B)/ way more than any one (C)/ group of people could eat (D)/.

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No Error

**Q10.** The skipper of the (A)/ boat guide the vessel (B)/ through the storm and made (C)/ it safely into the port (D)/.

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No Error



**Q11.** Spunky and full of spirit (A)/, the little girl is known (B)/ for always doing things that (C)/ others are afraid to does (D)/.

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No Error

**Q12.** The cell's nucleus is like (A)/ the conductor of a huge (B)/ opera who tell all the (C)/ performers what to do (D)/.

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No Error

**Q13.** To avoid a calamity, the (A)/ police is asking everyone (B)/ to move away from (C)/ the burning building (D)/.

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No Error



**Directions (14-16):** In each of the questions given below five words are given in bold. These four words may or may not be in their correct position. The sentence is then followed by options with the correct combination of words that should replace each other in order to make the sentence grammatically and contextually correct. Find the correct combination of the words that replace each other. If the sentence is correct as it is then select option (e) as your choice.

**Q14.** A **rugged (A)** ceiling fan uses the time-tested **induction (B)** motor, which is **typical (C)** but may have **limits (D)** on **energy (E)** performance.

- (a) E-C
- (b) E-D
- (c) B-D
- (d) A-C
- (e) No interchange required

**Q15.** In behavioural economics, **choices (A)** are **interventions (B)** that influence people's choices to make certain **decisions (C)** without **restricting (D)** the **nudges (E)** available to them.

- (a) D-A
- (b) E-C
- (c) B-D
- (d) E-A
- (e) No interchange required

**Q16.** Single-use plastics have **emerged (A)** as one of the world's most **buried (B)** environmental **threats (C)**, with vast amounts of waste **pressing (D)** in landfills or **dumped (E)** untreated in rivers and oceans.

- (a) C-E
- (b) A-B
- (c) B-D
- (d) D-A

- (e) No interchange required

**Directions (17-21):** Rearrange the following sentences in the proper sequence to form a meaningful paragraph; then answer the questions given below them.

- (A) Artificial intelligence and robotics are very recent technologies and risks for our world.
- (B) They may also inherit the full nature of creatures.
- (C) When humans see the past histories of AI and robotics, human beings can examine and understand the objectives and intentions of them to make life easy and assist human beings within different circumstances and situations.
- (D) However, currently and in the near future, due to the change in the attitude of robotic and AI inventors and experts as well as based on the AI nature that their capacity of environmental acquisition and adaptation, they may become predators and put creatures at risk.
- (E) They are developing their capacity dramatically and shifting their origins of developing intention to other dimensions.
- (F) Thus, finally they will create their new universe or the destiny of our universe will be in danger.

**Q17.** Which of the following should be the THIRD sentence after rearrangement?

- (a) D
- (b) A
- (c) B
- (d) E
- (e) C

**Q18.** Which of the following should be the FIRST sentence after rearrangement?

- (a) A
- (b) F

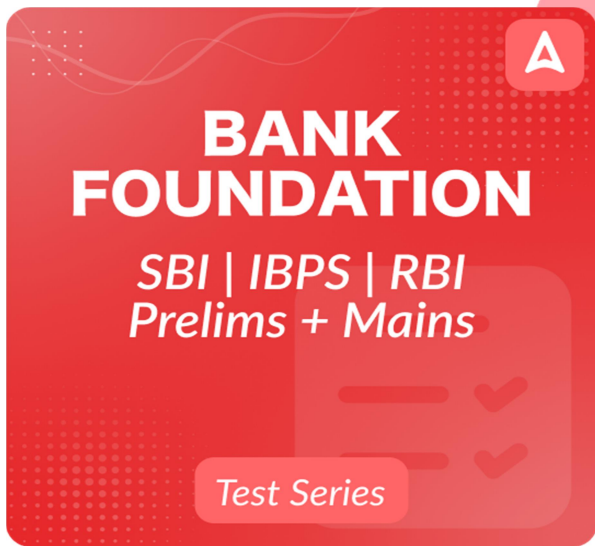
- (c) E
- (d) B
- (e) C

**Q19.** Which of the following should be the FIFTH sentence after rearrangement?

- (a) C
- (b) E
- (c) B
- (d) A
- (e) F

**Q20.** Which of the following should be the SECOND sentence after rearrangement?

- (a) B
- (b) E
- (c) D
- (d) C
- (e) A



**Q21.** Which of the following should be the LAST sentence after rearrangement?

- (a) C
- (b) B
- (c) E
- (d) D
- (e) F

**Directions (22-25):** In each of the following questions, a sentence has been given with two blanks. For each question, five options are given, each containing two words. You have to choose the most suitable option that fits both the blanks grammatically and contextually.

**Q22.** Although Epsom and Ewell are \_\_\_\_\_ populated, more than two-fifths of the borough is \_\_\_\_\_ as a green belt.

- (a) courageously, alarmed
- (b) densely, designated
- (c) brightly, terrified
- (d) morosely, spirited
- (e) sunnily, collected

**Q23.** The particularly \_\_\_\_\_ focus on the idea of a fully developed form in Aristotle's \_\_\_\_\_ of humans derives from its dual role.

- (a) elegant, ambitions
- (b) dapper, operations
- (c) prominent, discussions
- (d) spruce, applications
- (e) formal, attractions

**Q24.** In summer, the region is bathed in an \_\_\_\_\_ of sunlight, with a "midnight sun" that \_\_\_\_\_ sets.

- (a) abundance, never
- (b) absence, there
- (c) violence, now
- (d) silence, below
- (e) vengeance, soon

**Q25.** This has \_\_\_\_\_ both local populations and the rest of the world, with rising sea levels and \_\_\_\_\_ weather events.

- (a) inspired, arcane
- (b) captivated, average
- (c) amazed, abstruse
- (d) depressed, supreme
- (e) affected, extreme

**Directions (26):** A word has been given in each question and has been used in the sentences given below. Identify the statements where the word has been used in a contextually and grammatically correct manner. If the word has been used correctly in all the three statements, then mark (e), "All of these", as your answer.

**Q26. INTEREST**

(i) She developed a keen **interest** in painting during her college years and has since become a talented artist.

(ii) The company's new product generated a lot of **interest** among consumers due to its innovative features.

(iii) Sarah's **interest** in environmental conservation led her to volunteer at a local wildlife sanctuary.

- (a) both (ii) & (iii)
- (b) only (i)
- (c) both (i) & (ii)
- (d) only (iii)
- (e) All of these

**Directions (27-30):** Which of the following phrases given below each sentence should replace the phrase printed in bold letters to make the sentence grammatically correct?

Choose the best option among the five given alternatives that reflect the correct use of phrase in the context of the grammatically correct sentence. If the sentence is correct as it is, mark (e) i.e., "No correction required" as the answer.

**Q27.** Demand for electronics **is growing of all price segments**, even as the production of these devices entails the use of scarce elements and high emissions.

- (a) is grown over all price segment
- (b) is growing across all price segment
- (c) is growing for all price segments
- (d) is growing across all price segments
- (e) No correction required

**Q28.** The coup-plotters **may have sensed they would get support** from the anti-Erdogan masses and the secular political class.

- (a) may has sensed they would get support
- (b) may have sensed they would get supported
- (c) may has sensed they would get supported
- (d) may have sensed they could get supporting
- (e) No correction required

**Q29.** Although the Constitution doesn't provide for a fixed number of sessions or days of sitting, three **sessions are typical held in each** calendar year.

- (a) session are typically held in each
- (b) sessions are typically held in each
- (c) sessions are typically hold in each
- (d) sessions is typically held in each
- (e) No correction required

**Q30.** The ceiling fan market **are undergoing a churn too, driven by** policy imperatives and a regulation change.

- (a) is undergoing a churn too, driven for
- (b) is undergoing a churn to, driven by
- (c) is undergoing a churn too, driven by
- (d) is undergone a churn too, driven by

(e) No correction required



**Direction (31 – 36):** What will come in the place of question (?) mark in the following number series.

**Q31.** 20, 32, 47, 57, 74, ?

- (a) 100
- (b) 96
- (c) 90
- (d) 84
- (e) 80

**Q32.** 32, 40, 53, 76, ?, 172

- (a) 116
- (b) 112
- (c) 114
- (d) 124
- (e) 120

**Q33.** 40, 66, 116, 198, 320, ?

- (a) 470
- (b) 490
- (c) 510
- (d) 480
- (e) 520

**Q34.** 80, ?, 117, 168, 271, 478

- (a) 84
- (b) 104
- (c) 96
- (d) 92
- (e) 90

**Q35.** ?, 161, 228, 299, 372, 451

- (a) 100
- (b) 110
- (c) 90
- (d) 120
- (e) 80

**Q36.** 500, 50, 10, 3, 1.2 ?

- (a) 0.9
- (b) 0.32
- (c) 0.6
- (d) 0.4
- (e) 0.5

**Q37.** A shopkeeper marked up the price of article P by 20% and give discount of  $d\%$ , then he gets a loss of  $(d - 11)\%$ . If cost price of article Q is Rs.200 and gets a profit of  $1.5d\%$ , then find the selling price of the article Q.

- (a) Rs.335
- (b) Rs.305
- (c) Rs.300
- (d) Rs.345
- (e) Rs.330

**Q38.** A invested a sum of Rs.20000.1 for 2 years and 10 days at the rate of 11% p.a. at compound interest. The amount he receives after two years again invested for same time at same interest rate in simple interest. Find the approximate simple interest he received.

- (a) Rs.5421
- (b) Rs.5309
- (c) Rs.5390
- (d) Rs.5445
- (e) Rs.5530

**Q39.** In a container contains mixture of milk to water in the ratio of 3:2. When 75% of the mixture is taken out and 40 liters of mixture of milk and water added in which 40% is milk, then in the resultant mixture milk becomes  $44\frac{4}{9}\%$  of total mixture. Find the quantity of milk in initial mixture.

- (a)  $\frac{196}{7}$  liters
- (b) None of these
- (c)  $\frac{160}{7}$  liters
- (d)  $\frac{192}{7}$  liters
- (e)  $\frac{320}{7}$  liters

**Q40.** A, B and C together can complete  $66\frac{2}{3}\%$  of work in 2 days and A & B together can complete 30% of the work in 3 days. Find the time taken by C alone to complete  $4\frac{2}{3}$  of total work.

- (a) 20 days
- (b) 15 days
- (c) 7.5 days
- (d) 5 days
- (e) 12 days

**Directions (41-45):** In each of these questions, two equation (I) and (II) are given. You have to solve both the equations and give answer.

- (a) If  $x > y$
- (b) If  $x \geq y$
- (c) If  $x < y$
- (d) If  $x \leq y$
- (e) If  $x = y$  or no relation can be established between  $x$  and  $y$

**Q41.** I.  $4x^2 + 20x + 25 = 0$   
 II.  $2y^2 + 11y + 15 = 0$

- (a) If  $x > y$
- (b) If  $x \geq y$
- (c) If  $x < y$
- (d) If  $x \leq y$
- (e) If  $x = y$  or no relation can be established between  $x$  and  $y$

**Q42.** I.  $3x^2 - 14x + 15 = 0$   
 II.  $6y^2 - 31y + 18 = 0$

- (a) If  $x > y$
- (b) If  $x \geq y$
- (c) If  $x < y$
- (d) If  $x \leq y$
- (e) If  $x = y$  or no relation can be established between  $x$  and  $y$

**Q43.** I.  $4x^2 - 16x + 16 = 0$   
 II.  $10y^2 - 29y + 21 = 0$

- (a) If  $x > y$
- (b) If  $x \geq y$
- (c) If  $x < y$
- (d) If  $x \leq y$
- (e) If  $x = y$  or no relation can be established between  $x$  and  $y$

**Q44.** I.  $3x^2 - 37x + 114 = 0$   
 II.  $3y^2 - 46y + 171 = 0$

- (a) If  $x > y$
- (b) If  $x \geq y$
- (c) If  $x < y$
- (d) If  $x \leq y$
- (e) If  $x = y$  or no relation can be established between  $x$  and  $y$

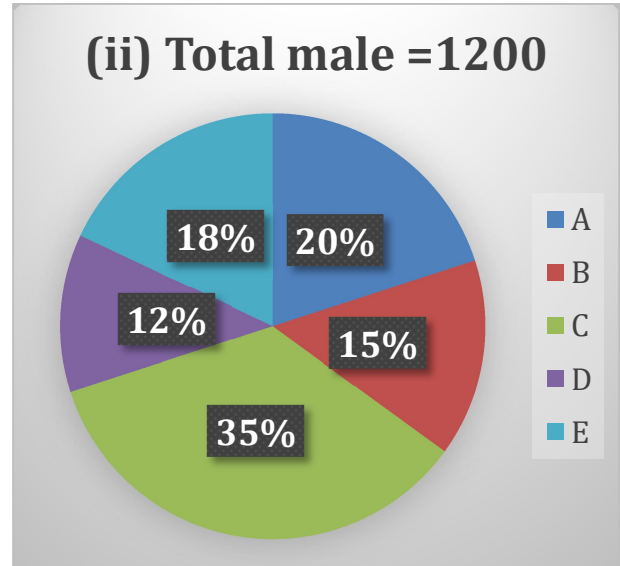
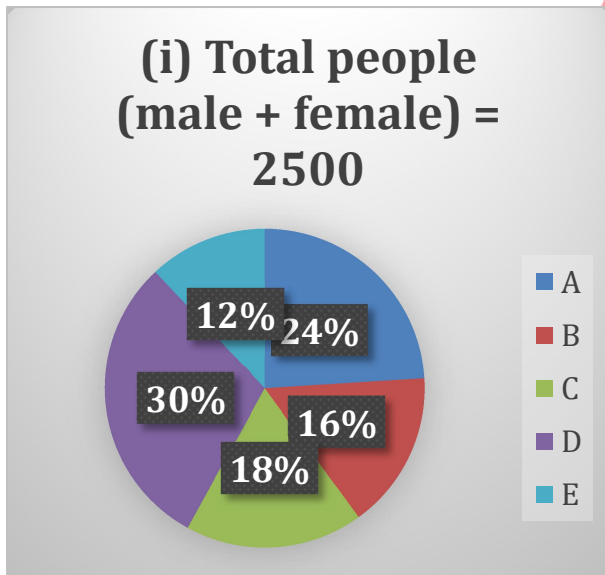
**Q45.** I.  $2x^2 + 13x - 150 = 0$

II.  $y^2 - 17y + 66 = 0$

- (a) If  $x > y$

- (b) If  $x \geq y$
- (c) If  $x < y$
- (d) If  $x \leq y$
- (e) If  $x = y$  or no relation can be established between  $x$  and  $y$

**Direction (46 – 51):** The pie chart (i) given below shows percentage distribution of total people (male + female) visited five different clubs and pie chart (ii) shows percentage distribution of total male visited in these five clubs. Read the data carefully and answer the questions given below.



**Q46.** Total females visited club B and C together are what percent of total people visited club D.

- (a) 40%
- (b) 35%
- (c) 36.3%
- (d) 33.33%
- (e) 30%

**Q47.** If total females visited club F are 25% more than total female visited club E and total number of people visited club F are  $\frac{11}{8}$ th of the total number of males visited club D, then find the ratio of total males visited club F to total male visited club E.

- (a) 29 : 72
- (b) 31 : 72
- (c) 37 : 72
- (d) 23 : 72
- (e) 25 : 72

**Q48.** The average number of females visited clubs B, E and X is 126. If total males visited club X are 45% of total males visited club A, then find the difference between total number of people visited club X and total females visited clubs A and C together.

- (a) 198

- (b) 218  
(c) 208  
(d) 168  
(e) 178

**Q49.** If price of each visit pass for club A, B and E is Rs 150, Rs 200 & Rs. 250 respectively, then find the total revenue (in Rs) generated in these clubs by all the males visited.

- (a) 108000  
(b) 136000  
(c) 126000  
(d) 96000  
(e) 156000

**Q50.** Total Females visited clubs D and E together are approximately what percent more than total females visited clubs A and B together.

- (a) 33%  
(b) 48%  
(c) 45%  
(d) 41%  
(e) 19%

**Q51.** The ratio of males whose age above 25 years to below 25 years in club C is 5 : 3, while the ratio of females whose age above 25 years to below 25 years in B is 1 : 2. If total males in C and females in B whose age is 25 years are 20 and 40 respectively, then find the sum of total males in C and females in B whose age below 25 years.

- (a) 300  
(b) 320  
(c) 270  
(d) 250  
(e) 210

**Direction (52 – 57):** Read the information and answer the following questions.

The table shows the number of males working in private and public companies and number of

females working in private and public company in four (A, B, C & D) different cities.

Cities	Males in Private company	Males in Public company	Females (private + public)
A	$15x - 2y$	$y$	55
B	$16x$	16	108
C	$9y$	24	74
D	84	21	85

**Note – (i)** Number of male employees in A are 50.

(ii) Total males working in private company from B and C are 154.

(iii) Total employees (male + female) working in any city = private companies + public company

(iv) Males/females working in any city = Sum of males/females working in private and public company

**Q52.** In city A, 40% of the females working in private company, then find the ratio females working in public companies from A to total males working in city D.

- (a) 11:35  
(b) 35:11  
(c) 13:11  
(d) 11:13  
(e) none of these.

**Q53.** The ratio of males working public company from C and females working in private company from city B is 4:5. The females working in public company from B is what percentage of males in public company in city A.

- (a) 780%  
(b) 80%  
(c) 180%  
(d) 760%  
(e) 708%

**Q54.** Average number of male employees in C and F is 200. 80% out of the total employees (private and public) from city F are females. Find the total employees in F is what percentage less/more than 100y.

- (a) 360
- (b) 400
- (c) 410
- (d) 430
- (e) 420

**Q55.** 50% of the total females are working private company from all the cities. Find the total employees (male + females) working in public company from all the cities.

- (a) 297
- (b) 250
- (c) 255
- (d) 232
- (e) 231

**Q56.** In which of the following cities, males working in private company is less than the average number of males working in private company.

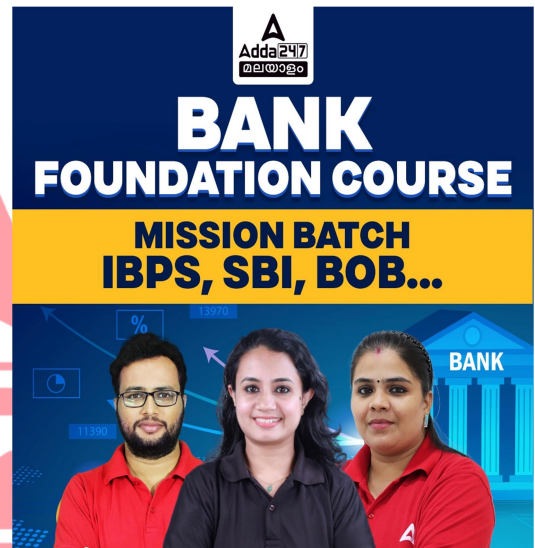
- (a) City C
- (b) City B
- (c) City A
- (d) City A and City B
- (e) City B and City C

**Q57.** Males working in city C is approximately what percentage of females working from B?

- (a) 80%
- (b) 190%
- (c) 180%
- (d) 106%
- (e) 70%

**Q58.** When 4 added into the numerator and 10 is subtract from the denominator of a fraction, then the fraction changed from  $\frac{8}{11}$  to  $\frac{3}{4}$ . Now we subtract 4 and 10 from numerator and denominator of the fraction respectively, then find the new fraction.

- (a)  $\frac{178}{244}$
- (b)  $\frac{184}{243}$
- (c)  $\frac{126}{254}$
- (d)  $\frac{168}{25}$
- (e)  $\frac{208}{254}$



**Q59.** The ratio of time taken by a boat to cover a distance in downstream to that of in upstream is 3 : 5. If the boat covers 90 km in downstream in t hours and 72 km in upstream in (t+1) hours, then find downstream speed (in km/hr) of the boat.

- (a) 20
- (b) 36
- (c) 24
- (d) 30
- (e) 18



**Q60.** 240 meters long train crosses a pole in  $x$  seconds, while the train can cross a 360 meters long platform in  $x+9$  seconds. Find the time taken by the train to cross a dog who is running in the direction of the train at speed of 36 km/hr.

- (a)  $x$  seconds
- (b)  $2x$  seconds
- (c)  $x+2$  seconds
- (d)  $x-1$  seconds
- (e)  $x+3$  seconds

**Q61.** The ratio of difference between area of a rectangle obtained in two cases, first when length of a rectangle is decreased by 4 cm and second when breadth of the original rectangle is increased by 4 cm to the area of rectangle is 4 : 9. Find ratio of numerical value perimeter to area of rectangle.

- (a) 2 : 7
- (b) 2 : 5
- (c) 2 : 11
- (d) 2 : 9
- (e) None of these

**Q62.** A and B started a business with investments of Rs.  $5X$  & and Rs.  $5X-400$  respectively. After six months, B added Rs.200 and at the end of the year profit received by B is Rs.510 out of a total profit of Rs.1110. Find the value of  $X$ .

- (a) 300
- (b) 600
- (c) 500
- (d) 200
- (e) 400

**Q63.** A spends 20% of his monthly salary on house rent and 25% of the remaining monthly salary on travelling. He spends his remaining monthly salary on food and children's

education in the ratio of 3:5 respectively. If the difference between the amount spent on children's education and house rent is Rs.700, then find the monthly salary of A (in Rs).

- (a) 2500
- (b) 4000
- (c) 4500
- (d) 5000
- (e) 2000

**Q64.** A man age is  $(3p+2q)$  years and his only son's age is 'p' years while his only daughter's age is 'q' years. Man's son is three years elder than her sister. If man's wife is five years younger than her husband who is 34 years old, then find average age of the family (in years).

- (a) 14.5
- (b) 19.0
- (c) 16.5
- (d) 22.5
- (e) 20.5

**Q65.** A vessel contains 79.99 liters mixture of milk and water in which milk is 50% more than water. 20.03 liters of mixture is taken out and 59.99 liters mixture of milk and water mixed in the remaining mixture into the vessel. If in the resultant mixture the milk becomes two times of the water, then find approximate quantity (in liters) of water added.

- (a)32
- (b)44
- (c)16
- (d)30
- (e)28

**Directions (66-70):** Study the following information carefully to answer the given questions:

Eight persons- A, B, C, D, E, F, G, and H sit around a square table such that four Persons face inside and sit middle of the table. Four faces outside and sit corner of the table.

G sits second left of C. Three person sits between D and B. H sits opposite A but does not sit at the middle of the table. D sits 2<sup>nd</sup> left of A. F sits second to the right of C. E sits immediate right of B.

**Q66. Four of the following five are alike in a certain way and thus form a group. Which among the following does not belong to the group?**

- (a) F
- (b) E
- (c) A
- (d) G
- (e) C

**Q67. How many persons sit between G and F?**

- (a) Five
- (b) Three
- (c) One
- (d) Two
- (e) None of these

**Q68. Who sits sixth to the left of B?**

- (a) D
- (b) A
- (c) G
- (d) H
- (e) None of these

**Q69. Who sits immediate right of D?**

- (a) G
- (b) C
- (c) F
- (d) A
- (e) None of these

**Q70. Who sits second to the left of H?**

- (a) B
- (b) C
- (c) A

- (d) F
- (e) None of these

**Directions (71-73):** In each of the questions below, some statements are given followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

**Q71. Statements:** All Gate are Park  
Only a few Park are Road  
All Road are Subway

**Conclusions: I.** No Gate is Subway

**II.** Some Park are not Road

- (a) If only I follow
- (b) If only II follow
- (c) If neither I nor II follows
- (d) If either I or II follows
- (e) If both I and II follow

**Q72. Statements:** No Soap is Pen  
Only a few Soap is Eraser  
Only a few Eraser is Clip

**Conclusions: I.** Some Eraser are Pen

**II.** Some Clip is not Soap

- (a) If only I follow
- (b) If only II follow
- (c) If neither I nor II follows
- (d) If either I or II follows
- (e) If both I and II follow

**Q73. Statements:** Some Giraffe is Kangaroo  
All Turtle is Giraffe  
All Seal is Kangaroo

**Conclusions: I.** Some Turtle is Kangaroo

**II.** All Giraffe can be Seal

- (a) If only I follows
- (b) If only II follows
- (c) If neither I nor II follows
- (d) If either I or II follows
- (e) If both I and II follow

**Directions (74):** Study the following information carefully to answer the given questions:

**In the certain code language:**

"All the time" is coded as "2 1 4"

"The way home" is coded as "7 8 2"

"Home is far" is coded as "3 5 8"

**Q74.** What is the code of the word "Way"?

- (a) 7
- (b) 8
- (c) 2
- (d) 3
- (e) None of these

**Q75.** If it is possible to make only one meaningful word from the 4<sup>th</sup>, 5<sup>th</sup>, 8<sup>th</sup> and 10<sup>th</sup> letters of the word "INTERCHANGE" using each letter only once, then what is the last letter of the word. If no such meaningful word can be formed the answer is "X" and if more than one such meaningful word can be formed, the answer will be "Z"?

- (a) E
- (b) X
- (c) A
- (d) R
- (e) Z

**Directions (76-80):** Study the following arrangement carefully and answer the questions given below:

Five boxes A, B, C, D and E are kept one above the other in a stack but not necessarily in the same order. Each box contains different fruits i.e., Orange, Mango, Apple, Banana, and Guava but not necessarily in the same order.

One box gap between box E and the box which contains Mango. Two boxes gap between the box which contains Orange and Banana. Apple box placed immediate below Banana box. Two boxes gap between box E and box B which contains Banana. Box A is placed immediately above box C.

**Q76.** Which of the following box is placed immediately below Box E?

- (a) Box A
- (b) Box B
- (c) Box D
- (d) Box C
- (e) None of these



**Q77.** How many boxes are placed between Box E and Box D?

- (a) One
- (b) Two
- (c) None
- (d) Three
- (e) None of these

**Q78.** Which of the following box contains Guava?

- (a) Box B
- (b) Box A
- (c) Box D
- (d) Box C

(e) Box E

**Q79.** How many boxes are placed between Guava and Apple boxes?

- (a) Three
- (b) Four
- (c) One
- (d) Two
- (e) None of these

**Q80.** Which of the following box contains Apple?

- (a) Box D
- (b) Box A
- (c) Box B
- (d) Box C
- (e) Box E

**Directions (81-83):** Study the following information carefully and answer the questions given below:

Point A is 11m to the west of Point B. Point C is 8m to the south of Point B. Point C is 1m to the west of Point J. Point J is 12m to the south of Point H. Point D is 11m to the east of Point J. Point E is 6m to the south of Point D. Point F is 17m to the west of Point E. Point G is in the north of Point F and to the west of Point H.

**Q81.** What is the shortest distance between Point G and Point F?

- (a) 17m
- (b) 18m
- (c) 19m
- (d) 21m
- (e) None of these

**Q82.** What is the direction of Point F with respect to Point D?

- (a) South
- (b) North
- (c) South-west

- (d) North-east
- (e) None of these

**Q83.** What is the direction of Point G with respect to Point E?

- (a) North
- (b) West
- (c) North-west
- (d) South-west
- (e) None of these

**Directions (84-88):** Study the following information carefully and answer the questions given below:

Six persons i.e., R, T, P, U, S and Q travel to the different states i.e., Delhi, Sikkim, Odisha, Goa, Kerala and Assam on two different dates i.e., 9<sup>th</sup> and 26<sup>th</sup> of three different months viz. May, June and July of the same year but not necessarily in the same order.

One person travel between P and the person who travels to Delhi. The person who travels to Delhi neither travels in month having an even number of days nor on even date. The person who travels to Delhi and the person who travels to Goa is not the first person to travel. Two Person travels between T and U who travels to Goa. T travels after P. The person who travels to Odisha travels just before S. Two persons travel between the person who travels to Kerala and the person who travels to Assam. U does not travel just after the person who travels to Assam. The number of persons travel between Q and S is one more than the number of person travel before R.

**Q84.** Who travels in the month of June?

- (a) The person who travels to Assam
- (b) Q
- (c) T
- (d) The person who travels to Sikkim



**Q92.** How many persons live in Texas?

- (a) Three
- (b) Five
- (c) Two
- (d) Four
- (e) None of the above

**Q93.** Who does not live with W?

- (a) O
- (b) Q
- (c) Y
- (d) L
- (e) None of the above

**Q94.** Which of the following statement is true?

- I. Q and Y live in same city
- II. Y lives with W
- III. More than two persons live in Texas

- (a) Both II and III
- (b) Only I
- (c) Both I and II
- (d) Only III
- (e) Both I and III

**Directions (95-97):** In this question, the relationship between different elements is shown in the statements. The statements are followed by conclusions. Study the conclusions based on the given statement and select the appropriate answer.

**Q95. Statements:**  $U > I \leq L \leq O$ ;  $R < T \leq Y > E$ ;  $X > Y > O \leq B$

**Conclusions: I.**  $I < X$                       **II.**  $R > U$

- (a) If only conclusion I is true
- (b) If only conclusion II is true
- (c) If either conclusion I or II is true
- (d) If neither conclusion I nor II is true
- (e) If both conclusions I and II are true

**Q96. Statements:**  $7 > 5 < 9 \geq 3$ ;  $4 > 5 \geq 0 < 2$ ;  $6 > 8 \leq 4 > 1$

**Conclusions: I.**  $7 > 6$                       **II.**  $1 > 2$

- (a) If only conclusion I is true
- (b) If only conclusion II is true
- (c) If either conclusion I or II is true
- (d) If neither conclusion I nor II is true
- (e) If both conclusions I and II are true

**Q97. Statements:**  $M \leq O > T > R > E$ ;  $N = H \leq R > K < U$

**Conclusions: I.**  $E > N$                       **II.**  $H \geq E$

- (a) If only conclusion I is true
- (b) If only conclusion II is true
- (c) If either conclusion I or II is true
- (d) If neither conclusion I nor II is true
- (e) If both conclusions I and II are true

**Directions (98-100):** Study the following information carefully to answer the given questions:

Certain numbers of persons sit in a row face north. Two persons sit between Q and P. P sits 3<sup>rd</sup> to the left of L. B sits adjacent to L. Four persons sit between B and Q who sits just right of D. The numbers of persons sit between Q and P is one more than the numbers of persons sit between R and Q. S sits 2<sup>nd</sup> to the left of R. Two persons sit between S and E. The numbers of persons sit between E and S is same as the numbers of persons sit to the left of E. K sits at one of the extreme ends and two places away from L.

**Q98.** Who sits at the rightmost end of the row?

- (a) P
- (b) K
- (c) R
- (d) D
- (e) S

**Q99.** How many persons sit between B and E?

- (a) 11
- (b) 12
- (c) 17
- (d) 14
- (e) None of these

**Q100.** How many persons sit in the row?

- (a) 17
- (b) 19
- (c) 18
- (d) 16
- (e) None of these

## Solutions

**S1. Ans.(c)**

**Sol.** The correct answer is: **“Global mobility restrictions and economic activity declination due to lockdown”**.

The passage explicitly states that greenhouse gas emissions decreased in 2020 due to lockdowns in the first half of the year, which restricted global mobility and hampered economic activity. For better understanding, refer to the first sentence of the passage, ***“Emissions of carbon dioxide and other greenhouse gases plunged 4.6 percent in 2020, as lockdowns in the first half of the year restricted global mobility and hampered economic activity”***.

Information given in other options are incorrect as they do not align with the information presented in the passage.

- (a) **Reduced emissions from manufacturing and energy sectors:** This option is not supported by the passage. The passage does mention that emissions from manufacturing and the energy sectors contributed to recent global increases in greenhouse gas emissions, but it does not indicate that these emissions decreased in 2020.
- (b) **The introduction of global policy over capping greenhouse gas emission by 30%:** There is no mention of such a global policy in the

passage. Therefore, this option is not supported by the information provided.

- (d) **Increased use of renewable energy sources:** There is no mention in the passage that the decrease in emissions in 2020 was primarily due to increased use of renewable energy sources. While renewable energy sources are beneficial for reducing emissions, this specific cause is not mentioned.

- (e) **The emergence of the Climate Change Indicators Dashboard:** The Climate Change Indicators Dashboard is mentioned in the passage, but it is not cited as a reason for the decrease in emissions in 2020. Therefore, this option is not supported by the passage.

**S2. Ans.(c)**

**Sol.** The correct answer is: **“They cause changes in the atmosphere, land, and oceans”**.

The passage explicitly states that greenhouse gas emissions from human activities lead to many changes around the world, including in the atmosphere, on land, and in the oceans. For better understanding, refer to the first sentence of the second paragraph, ***“As greenhouse gas emissions from human activities increase, they build up in the atmosphere and warm the climate, leading to many other changes***

***around the world—in the atmosphere, on land, and in the oceans.***

Information given in other options are incorrect as they do not align with the information presented in the passage.

(a) **They lead to increased atmospheric humidity:** The passage does not mention anything about greenhouse gas emissions leading to increased atmospheric humidity. Therefore, this option is not supported by the passage.

(b) **They reduce atmospheric warming:** This option is not supported by the passage either. Greenhouse gas emissions, as mentioned in the passage, lead to atmospheric warming and contribute to global climate change. They do not reduce atmospheric warming.

(d) **They only affect the atmosphere:** This option is contradicted by the information in the passage. The passage makes it clear that greenhouse gas emissions have widespread impacts, not limited to the atmosphere alone.

(e) **Their impact on climate is minuscule and cannot be judged effectively:** The passage does not suggest that the impact of greenhouse gas emissions on climate is minuscule or impossible to judge. In fact, the passage emphasizes the importance of reducing emissions to limit atmospheric warming, indicating that their impact is significant.

### **S3. Ans.(b)**

**Sol.** The correct answer is: **“Monitoring the transition to lower carbon use”.**

The passage mentions that the IMF's Climate Change Indicators Dashboard is a joint effort

among national and international statistical organizations to provide timely data to help monitor the transition to lower carbon use. It plays a role in monitoring progress toward reducing carbon emissions. For better understanding, refer to the last statement of the first paragraph, ***“Emissions from the manufacturing and the energy sectors contributed the most to recent global increases based on updated information from the IMF's Climate Change Indicators Dashboard—a joint effort among national and international statistical organizations to provide timely data to help monitor the transition to lower carbon use.”***

The other options are not mentioned in the passage as the purpose of IMF's Climate Change Indicators Dashboard, thus cannot be taken as the answer choice.

(a) **Providing funding for renewable energy projects:** This is not mentioned in the passage. The role of the IMF's Climate Change Indicators Dashboard is about monitoring and providing data, not funding projects.

(c) **Assessing the effectiveness of public health measures:** While public health measures are mentioned in the passage, there is no indication that the IMF's Dashboard is responsible for assessing their effectiveness. Its primary role is related to carbon emissions.

(d) **Predicting future global mobility trends:** The passage mentions global mobility restrictions due to the pandemic but does not suggest that the IMF's Dashboard predicts future mobility trends. Its focus is on carbon emissions data.



(e) **Advocating for stricter emissions regulations:** The passage does not mention advocacy or lobbying activities by the IMF's Dashboard. Its role is primarily data-driven and monitoring-based, rather than advocating for policies.

**S4. Ans.(d)**

**Sol.** The correct answer is: **"It reduces the risk of severe climate impacts"**.

The passage mentions that limiting atmospheric warming to around 1.5 degrees Celsius is significant because it reduces the risk of severe climate impacts. This aligns with the passage's message that time is running out, and urgent action is needed to limit atmospheric warming. For better understanding, refer to the last paragraph where it is mentioned, *"The Intergovernmental Panel on Climate Change has said that, in the scenarios they assessed, limiting atmospheric warming to the key level of around 1.5 degrees Celsius requires global greenhouse gas emissions to peak by 2025 at the latest, emphasizing that achieving this milestone is a crucial step towards controlling the severity of climate change."*

Information given in other options are incorrect as they do not align with the information presented in the passage.

(a) **It prevents all climate-related changes:**

The passage does not suggest that limiting atmospheric warming to 1.5 degrees Celsius prevents all climate-related changes

(b) **It ensures immediate reductions in emissions:**

The passage does not mention that limiting atmospheric warming to 1.5 degrees Celsius ensures immediate reductions in emissions. The emphasis is on the need to reduce emissions to

achieve this goal, but it does not guarantee immediacy.

(c) **It avoids the need for future climate action:**

This option is not supported by the passage. The passage does not suggest that limiting warming to 1.5 degrees Celsius eliminates the need for future climate action; it highlights the urgency of bending the emissions curve to achieve this goal.

(e) **It guarantees economic growth:**

The passage does not suggest that limiting warming to 1.5 degrees Celsius guarantees economic growth. It focuses on the environmental and climate-related aspects of the issue rather than economic growth.

**S5. Ans.(e)**

**Sol.** The correct answer is: **"Urgent action is needed to reduce emissions and limit atmospheric warming"**.

The passage's overarching message is that urgent action is needed to bend the emissions curve and achieve necessary reductions in greenhouse gas emissions to limit atmospheric warming. It underscores the urgency of addressing climate change.

Information given in other options are incorrect as they do not align with the information presented in the passage.

(a) **The world is on track to achieve the necessary reductions in emissions:**

This option is not supported by the passage. The passage indicates that greenhouse gas emissions have increased above pre-pandemic levels, suggesting that the world is not currently on track to achieve necessary reductions.

(b) **The Climate Change Indicators Dashboard is the sole solution to climate change:**

The passage mentions about the Climate Change Indicators Dashboard but does not suggest that it is the sole solution to climate change. This option oversimplifies the issue and is not supported by the passage.

(c) **Greenhouse gas emissions have no significant impact on climate:**

This option is contradicted by the passage. The passage clearly states that greenhouse gas emissions from human activities lead to various changes around the world, affecting the atmosphere, land, and oceans. It acknowledges the significant impact of emissions on the climate.

(d) **Economic growth is more important than addressing climate change:**

The passage does not convey the message that economic growth is more important than addressing climate change. Instead, it emphasizes the urgent need to reduce emissions to limit atmospheric warming, indicating the importance of addressing climate change.

**S6. Ans.(c)**

**Sol.** The correct answer is: **"The pandemic caused a temporary decrease in emissions"**.

The passage mentions that greenhouse gas emissions decreased in 2020 due to lockdowns in the first half of the year. This suggests a temporary decrease associated with the pandemic.

Information given in other options are incorrect as they do not align with the information presented in the passage.

(a) **The pandemic had no impact on greenhouse gas emissions:**

This option is not supported by the passage. The passage clearly states that greenhouse gas emissions decreased in 2020 due to lockdowns,

which were a response to the pandemic. Therefore, the pandemic did have an impact on emissions.

(b) **The pandemic led to an increase in emissions:**

This option is contradicted by the passage. The passage mentions that greenhouse gas emissions plunged in 2020 due to lockdowns, indicating a decrease in emissions during the pandemic.

(d) **The pandemic gave a significant time to construct a proper plan to curb greenhouse gas emissions:**

The passage does not provide information about the pandemic giving time to construct a proper plan to curb emissions. This option is not supported by the passage.

(e) **The pandemic accelerated emissions from the manufacturing sector:**

The passage does not mention the pandemic accelerating emissions from the manufacturing sector. This option is not supported by the passage.



**S7. Ans.(d)**

**Sol.** The synonym for "curve" as highlighted in the given passage is: **"trajectory"**.

A trajectory refers to the path followed by an object moving through space, and in the context

of the passage, "curve" likely refers to the trajectory of greenhouse gas emissions.

Incorrect options:

(a) **loop:** A "loop" typically refers to a shape formed by a curve that bends and curves back on itself, often in a circular or oval manner. While a loop involves curves, it doesn't necessarily capture the idea of a continuous and gradual change in direction, as the word "curve" does in the context of the passage.

(b) **pendulous:** "Pendulous" describes something hanging loosely and swinging, often in a curved or arc-like motion. While "pendulous" relates to movement and curves, it doesn't directly convey the idea of a curve as a graphical representation or a continuous, smooth change in direction.

(c) **spiral:** A "spiral" is a shape or pattern characterized by a continuous and gradually expanding curve that winds around a central point or axis. This term does not align with the idea of a curve, especially one that is continuous and evolving.

(e) **abaft:** "Abaft" is a nautical term that refers to a location on a ship, specifically toward the rear or stern. It does not relate to the concept of a curve or the way "curve" is used in the passage.

### S8. Ans.(a)

**Sol.** The antonym for "build" as highlighted in the given passage is: "**demolish**".

"Demolish" means to destroy or tear down, which is the opposite of "build," which means to construct or create.

Incorrect options:

(b) **rejig:** "Rejig" is not a direct antonym of "build." It means to reorganize or make changes to something, often without completely destroying it. While it can involve altering existing structures or systems, it does not

inherently mean to completely tear down or eliminate as "demolish" does.

(c) **extraction:** "Extraction" refers to the process of removing something, often from its source or environment. It is not a direct antonym of "build" because it does not necessarily involve destroying or tearing down, which is the opposite action implied by "demolish."

(d) **malign:** "Malign" means to speak critically or harmfully about something or someone. It is not directly related to the concept of building or construction, so it is not an antonym of "build."

(e) **squeeze:** "Squeeze" typically refers to applying pressure to compress or reduce the size or volume of something. While it doesn't directly relate to the concept of construction or building, it also does not represent the opposite action of building or constructing.

### S9. Ans.(a)

**Sol.** The error in **Part (A)** is the subject-verb agreement. The word "nimity" is a singular noun, so the verb "were" should be changed to the singular form "was" to match. To make the sentence grammatically correct, the word "were" should be replaced with "**was**".

The other parts of the sentence are grammatically correct.

Therefore, the correct sentence would be: "A nimity of food **was** spread over the tables and was way more than any one group of people could eat."

### S10. Ans.(b)

**Sol.** **Part (B)** has a grammatical error. The correct form is "guided the vessel" instead of "guide the vessel." The verb should be in the past

tense to match the context of the sentence. To make the sentence grammatically correct, the word "guide" should be replaced with "**guided**". The other parts of the sentence are grammatically correct.

Therefore, the correct sentence would be: "The skipper of the boat **guided** the vessel through the storm and made it safely into the port."

**S11. Ans.(d)**

**Sol. Part (D)** has a grammatical error. The correct form is "others are afraid to do" instead of "others are afraid to does." The verb "does" should be in the base form after the preposition "to" to form the infinitive phrase. To make the sentence grammatically correct, the word "does" should be replaced with "**do**".

The other parts of the sentence are grammatically correct.

Therefore, the correct sentence would be: "Spunky and full of spirit, the little girl is known for always doing things that others are afraid to **do**."

**S12. Ans.(c)**

**Sol. Part (C)** has a grammatical error. The verb "tell" should be in the singular form "tells" to agree with the singular subject "conductor." To make the sentence grammatically correct, the word "tell" should be replaced with "**tells**".

The other parts of the sentence are grammatically correct.

Therefore, the correct sentence would be: "The cell's nucleus is like the conductor of a huge opera who **tells** all the performers what to do."

**S13. Ans.(b)**

**Sol. Part (B)** has a grammatical error. The verb "is" should be changed to "are" to agree with the plural subject "police." To make the sentence grammatically correct, the word "is" should be replaced with "**are**".

The other parts of the sentence are grammatically correct.

Therefore, the correct sentence would be: "To avoid a calamity, the police **are** asking everyone to move away from the burning building."

**S14. Ans.(d)**

**Sol.** Among the highlighted words, "rugged" and "typical" are incorrectly placed. The correct combination of words that should replace each other in order to make the sentence grammatically and contextually correct is **A-C**. The word "**rugged**" should be replaced with "**typical**" as the given statement is saying that a typical ceiling fan uses the time-tested induction motor, which is rugged but may have limits on energy performance.

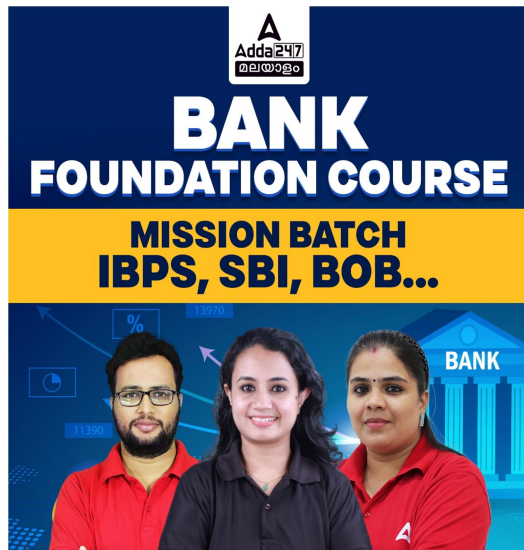
So, the correct sentence after rearrangement of words would be, "A **typical** ceiling fan uses the time-tested **induction** motor, which is **rugged** but may have **limits** on **energy** performance."

**S15. Ans.(d)**

**Sol.** Among the highlighted words, "choices" and "nudges" are incorrectly placed. The correct

combination of words that should replace each other in order to make the sentence grammatically and contextually correct is **E-A**. The word "**choices**" should be replaced with "**nudges**" as the given statement is saying that in behavioural economics, nudges are interventions that influence people's choices to make certain decisions without restricting the choices available to them.

So, the correct sentence after rearrangement of words would be, "In behavioural economics, **nudges** are **interventions** that influence people's choices to make certain **decisions** without **restricting** the **choices** available to them."



**S16. Ans.(c)**

**Sol.** Among the highlighted words, "buried" and "pressing" are incorrectly placed. The correct combination of words that should replace each other in order to make the sentence grammatically and contextually correct is **B-D**. The word "**buried**" should be replaced with "**pressing**" as the given statement is saying that single-use plastics have emerged as one of the world's most pressing environmental threats,

with vast amounts of waste buried in landfills or dumped untreated in rivers and oceans.

So, the correct sentence after rearrangement of words would be, "Single-use plastics have **emerged** as one of the world's most **pressing** environmental **threats**, with vast amounts of waste **buried** in landfills or **dumped** untreated in rivers and oceans."

**S17. Ans.(e)**

**Sol.** The correct sequence of the given sentences to form a meaningful paragraph is **AECDBF**. Here's the explanation for the sequence:

**(A)** "**Artificial intelligence and robotics are very recent technologies and risks for our world.**" This sentence introduces the topic of artificial intelligence and robotics as recent technologies and potential risks to the world.

**(E)** "**They are developing their capacity dramatically and shifting their origins of developing intention to other dimensions.**" Sentence E provides information about the rapid development and changing intentions of artificial intelligence and robotics.

**(C)** "**When humans see the past histories of AI and robotics, human beings can examine and understand the objectives and intentions of them to make life easy and assist human beings within different circumstances and situations.**" Sentence C suggests that examining the past histories of AI and robotics can help humans understand their objectives and intentions in various situations.

**(D)** "**However, currently and in the near future, due to the change in the attitude of robotic and AI inventors and experts as well as based on the AI nature that their capacity of environmental acquisition and adaptation, they may become predators and put creatures at risk.**" Sentence D introduces the idea that the

attitudes of AI inventors and the capacity of AI for adaptation could lead to potential risks, making them "predators" in certain contexts.

**(B) "They may also inherit the full nature of creatures."** Sentence B follows logically from sentence D, suggesting that AI and robotics might inherit the nature of creatures, further supporting the idea of them becoming potential risks.

**(F) "Thus, finally they will create their new universe or the destiny of our universe will be in danger."** Sentence F concludes the paragraph by discussing the potential creation of a new universe or the threat to the destiny of our universe as a result of AI and robotics.

Thus, the sequence **AECDBF** provides a logical flow of ideas, starting with the introduction of AI and robotics, their development, examination of their objectives, the potential risks they pose, their inheritance of creature nature, and the possible consequences for the universe.

### S18. Ans.(a)

**Sol.** The correct sequence of the given sentences to form a meaningful paragraph is **AECDBF**.

Here's the explanation for the sequence:

**(A) "Artificial intelligence and robotics are very recent technologies and risks for our world."** This sentence introduces the topic of artificial intelligence and robotics as recent technologies and potential risks to the world.

**(E) "They are developing their capacity dramatically and shifting their origins of developing intention to other dimensions."** Sentence E provides information about the rapid development and changing intentions of artificial intelligence and robotics.

**(C) "When humans see the past histories of AI and robotics, human beings can examine and understand the objectives and intentions of them to make life easy and assist human beings within different circumstances and situations."** Sentence C suggests that examining the past histories of AI and robotics can help humans understand their objectives and intentions in various situations.

**(D) "However, currently and in the near future, due to the change in the attitude of robotic and AI inventors and experts as well as based on the AI nature that their capacity of environmental acquisition and adaptation, they may become predators and put creatures at risk."** Sentence D introduces the idea that the attitudes of AI inventors and the capacity of AI for adaptation could lead to potential risks, making them "predators" in certain contexts.

**(B) "They may also inherit the full nature of creatures."** Sentence B follows logically from sentence D, suggesting that AI and robotics might inherit the nature of creatures, further supporting the idea of them becoming potential risks.

**(F) "Thus, finally they will create their new universe or the destiny of our universe will be in danger."** Sentence F concludes the paragraph by discussing the potential creation of a new universe or the threat to the destiny of our universe as a result of AI and robotics.

Thus, the sequence **AECDBF** provides a logical flow of ideas, starting with the introduction of AI and robotics, their development, examination of their objectives, the potential risks they pose, their inheritance of creature nature, and the possible consequences for the universe.

**S19. Ans.(c)**

**Sol.** The correct sequence of the given sentences to form a meaningful paragraph is **AECDBF**.

Here's the explanation for the sequence:

**(A) "Artificial intelligence and robotics are very recent technologies and risks for our world."** This sentence introduces the topic of artificial intelligence and robotics as recent technologies and potential risks to the world.

**(E) "They are developing their capacity dramatically and shifting their origins of developing intention to other dimensions."** Sentence E provides information about the rapid development and changing intentions of artificial intelligence and robotics.

**(C) "When humans see the past histories of AI and robotics, human beings can examine and understand the objectives and intentions of them to make life easy and assist human beings within different circumstances and situations."** Sentence C suggests that examining the past histories of AI and robotics can help humans understand their objectives and intentions in various situations.

**(D) "However, currently and in the near future, due to the change in the attitude of robotic and AI inventors and experts as well as based on the AI nature that their capacity of environmental acquisition and adaptation, they may become predators and put creatures at risk."** Sentence D introduces the idea that the attitudes of AI inventors and the capacity of AI for adaptation could lead to potential risks, making them "predators" in certain contexts.

**(B) "They may also inherit the full nature of creatures."** Sentence B follows logically from

sentence D, suggesting that AI and robotics might inherit the nature of creatures, further supporting the idea of them becoming potential risks.

**(F) "Thus, finally they will create their new universe or the destiny of our universe will be in danger."** Sentence F concludes the paragraph by discussing the potential creation of a new universe or the threat to the destiny of our universe as a result of AI and robotics.

Thus, the sequence **AECDBF** provides a logical flow of ideas, starting with the introduction of AI and robotics, their development, examination of their objectives, the potential risks they pose, their inheritance of creature nature, and the possible consequences for the universe.

**S20. Ans.(b)**

**Sol.** The correct sequence of the given sentences to form a meaningful paragraph is **AECDBF**.

Here's the explanation for the sequence:

**(A) "Artificial intelligence and robotics are very recent technologies and risks for our world."** This sentence introduces the topic of artificial intelligence and robotics as recent technologies and potential risks to the world.

**(E) "They are developing their capacity dramatically and shifting their origins of developing intention to other dimensions."** Sentence E provides information about the rapid development and changing intentions of artificial intelligence and robotics.

**(C) "When humans see the past histories of AI and robotics, human beings can examine and understand the objectives and intentions of them to make life easy and assist human beings within different circumstances and situations."** Sentence C suggests that examining

the past histories of AI and robotics can help humans understand their objectives and intentions in various situations.

**(D) "However, currently and in the near future, due to the change in the attitude of robotic and AI inventors and experts as well as based on the AI nature that their capacity of environmental acquisition and adaptation, they may become predators and put creatures at risk."** Sentence D introduces the idea that the attitudes of AI inventors and the capacity of AI for adaptation could lead to potential risks, making them "predators" in certain contexts.

**(B) "They may also inherit the full nature of creatures."** Sentence B follows logically from sentence D, suggesting that AI and robotics might inherit the nature of creatures, further supporting the idea of them becoming potential risks.

**(F) "Thus, finally they will create their new universe or the destiny of our universe will be in danger."** Sentence F concludes the paragraph by discussing the potential creation of a new universe or the threat to the destiny of our universe as a result of AI and robotics.

Thus, the sequence **AECDBF** provides a logical flow of ideas, starting with the introduction of AI and robotics, their development, examination of their objectives, the potential risks they pose, their inheritance of creature nature, and the possible consequences for the universe.

### **S21. Ans.(e)**

**Sol.** The correct sequence of the given sentences to form a meaningful paragraph is **AECDBF**. Here's the explanation for the sequence:

**(A) "Artificial intelligence and robotics are very recent technologies and risks for our**

**world."** This sentence introduces the topic of artificial intelligence and robotics as recent technologies and potential risks to the world.

**(E) "They are developing their capacity dramatically and shifting their origins of developing intention to other dimensions."** Sentence E provides information about the rapid development and changing intentions of artificial intelligence and robotics.

**(C) "When humans see the past histories of AI and robotics, human beings can examine and understand the objectives and intentions of them to make life easy and assist human beings within different circumstances and situations."** Sentence C suggests that examining the past histories of AI and robotics can help humans understand their objectives and intentions in various situations.

**(D) "However, currently and in the near future, due to the change in the attitude of robotic and AI inventors and experts as well as based on the AI nature that their capacity of environmental acquisition and adaptation, they may become predators and put creatures at risk."** Sentence D introduces the idea that the attitudes of AI inventors and the capacity of AI for adaptation could lead to potential risks, making them "predators" in certain contexts.

**(B) "They may also inherit the full nature of creatures."** Sentence B follows logically from sentence D, suggesting that AI and robotics might inherit the nature of creatures, further supporting the idea of them becoming potential risks.

**(F) "Thus, finally they will create their new universe or the destiny of our universe will be**



**in danger.**" Sentence F concludes the paragraph by discussing the potential creation of a new universe or the threat to the destiny of our universe as a result of AI and robotics.

Thus, the sequence **AECDBF** provides a logical flow of ideas, starting with the introduction of AI and robotics, their development, examination of their objectives, the potential risks they pose, their inheritance of creature nature, and the possible consequences for the universe.

### S22. Ans.(b)

**Sol.** The most appropriate words to fill in the given blanks are: "**densely, designated**".

This option is correct. "Densely" fits the context as it describes the population, and "designated" is the right word to describe the green belt, indicating that it has been officially marked or assigned for a particular purpose.

Thus, the sentence will be "Although Epsom and Ewell are **densely** populated, more than two-fifths of the borough is **designated** as a green belt."

The other options are not correct because they do not make sense in the context of the sentence.

**(a) courageously, alarmed-** This option is incorrect because "courageously" and "alarmed" don't make sense in the context of the sentence. "Courageously" means to do something with courage, bravery, or fearlessness. "Alarmed" means to be frightened or concerned about a potential danger or threat.

**(c) brightly, terrified-** This option is incorrect. "Brightly" and "terrified" are not suitable words for this sentence. They don't convey the intended meaning. "Brightly" means with a lot of light or

in a cheerful manner. "Terrified" means extremely afraid or scared.

**(d) morosely, spirited-** This option is incorrect because "morosely" and "spirited" are not appropriate in the context. The sentence is about the population and the designation of a green belt, and these words do not fit. "Morosely" means in a gloomy, sullen, or melancholy manner. "Spirited" means having a lively or energetic quality.

**(e) sunnily, collected-** This option is incorrect. "Sunnily" and "collected" are not relevant to the context of the sentence. They do not make the sentence meaningful. "Sunnily" means in a cheerful, sunny, or optimistic manner. "Collected" means gathered together or composed, often referring to one's state of mind or demeanor.

### S23. Ans.(c)

**Sol.** The most appropriate words to fill in the given blanks are: "**prominent, discussions**".

This option is correct. The word "prominent" means well-known or important and the word "discussions" refer to conversations or debates. It fits the context well because it suggests that Aristotle's focus on a fully developed form is a notable or important aspect of his discussions about humans.

Thus, the sentence will be "The particularly **prominent** focus on the idea of a fully developed form in Aristotle's **discussions** of humans derives from its dual role."

The other options are not correct because they do not make sense in the context of the sentence.

**(a) elegant, ambitions-** This option is incorrect because "elegant" and "ambitions" do not

logically fit the context of the sentence. The sentence is discussing Aristotle's philosophical ideas, and these words do not provide a meaningful connection. The word "elegant" means refined or tasteful in appearance or style and the word "ambitions" refer to one's goals or aspirations.

**(b) dapper, operations-** This option is incorrect because "dapper" and "operations" do not make sense in the context of discussing Aristotle's philosophical ideas about humans. The word "dapper" means neatly dressed or stylish in appearance and the word "operations" typically refer to processes or activities.

**(d) spruce, applications-** This option is incorrect because "spruce" and "applications" do not convey the intended meaning in the context of Aristotle's philosophical ideas. The word "spruce" means neat, smart, or tidy in appearance and the word "applications" typically refer to the practical use of something.

**(e) formal, attractions-** This option is incorrect because "formal" and "attractions" do not provide a logical connection to the context of Aristotle's philosophical discussions about humans. The word "formal" means following established procedures or conventions and the word "attractions" refer to things that are interesting or appealing.

#### S24. Ans.(a)

**Sol.** The most appropriate words to fill in the given blanks are: "**abundance, never**".

This option appropriately describes the region being bathed in a large quantity of sunlight during summer, with the "midnight sun" never setting. The word "abundance" means a large

quantity or plenty of something. In the context of summer and sunlight, this word fits perfectly as it conveys the idea of there being a lot of sunlight. The word "never" is the appropriate word to indicate that the "midnight sun" does not set during the summer.

Thus, the sentence will be "In summer, the region is bathed in an **abundance** of sunlight, with a "midnight sun" that **never** sets."

The other options are not correct because they do not make sense in the context of the sentence.

**(b) absence, there-** "Absence" means the state of being away or not present. This word does not fit the context because the sentence is describing the region being bathed in sunlight, not its absence. "There" is not suitable in this context as it doesn't convey the intended meaning. The sentence is describing the continuous presence of sunlight.

**(c) violence, now-** "Violence" refers to physical force causing injury or damage. This word does not make sense in the context of sunlight and the "midnight sun." "Now" does not convey the appropriate meaning in this context.

**(d) silence, below-** "Silence" means the absence of sound. This word is not relevant to describing sunlight. "Below" does not fit the context of describing sunlight and the "midnight sun."

**(e) vengeance, soon-** "Vengeance" means the desire for revenge or retaliation, which is not related to sunlight. "Soon" does not convey the intended meaning. The sentence is describing the continuous presence of sunlight during summer, not that it will happen soon.

#### S25. Ans.(e)

**Sol.** The most appropriate words to fill in the given blanks are: "**affected, extreme**".

This option accurately conveys the meaning of the sentence, highlighting the impact and extreme nature of the events. The word "affected" is the correct word as it describes the impact or influence of an event on both local populations and the rest of the world. The word "extreme" correctly describes the nature of the weather events, emphasizing their severity and intensity, which is appropriate in the context.

Thus, the sentence will be "This has **affected** both local populations and the rest of the world, with rising sea levels and **extreme** weather events."

The other options are not correct because they do not make sense in the context of the sentence.

**(a) inspired, arcane-** "Inspired" means to be motivated or influenced by something, but it doesn't fit the context of the sentence, which is discussing the impact of an event. "Arcane" means understood by few, mysterious, or obscure. This word is not appropriate in the context of rising sea levels and weather events.

**(b) captivated, average-** "Captivated" means to be charmed or enthralled by something, but it doesn't convey the intended meaning of the sentence, which is about the impact of an event. "Average" is not relevant in the context of describing the effects of an event on local populations and the world.

**(c) amazed, abstruse-** "Amazed" means to be surprised or astonished, but it doesn't appropriately describe the effects of an event. "Abstruse" means difficult to understand or

comprehend, and it doesn't fit the context of the sentence.

**(d) depressed, supreme-** "Depressed" means feeling sad or downcast, and it doesn't convey the intended meaning of the sentence, which is about the impact of an event. "Supreme" means the highest in rank, authority, or quality, and it doesn't fit the context.

### **S26. Ans.(e)**

**Sol.** The correct answer is: "**all of these**".

#### **Explanation:**

Let's go through each statement and analyze how the word "interest" has been used correctly:

(i) **She developed a keen interest in painting during her college years and has since become a talented artist.**

In this sentence, "interest" is used correctly to describe her fascination or passion for painting. It indicates that she has a strong attraction or curiosity towards painting, and this interest has led her to become a talented artist. The usage here is both contextually and grammatically correct.

(ii) **The company's new product generated a lot of interest among consumers due to its innovative features.**

In this sentence, "interest" is used correctly to describe the attention and curiosity that consumers have shown in the company's new product. It implies that people are intrigued or enthusiastic about the product because of its innovative features. The usage is both contextually and grammatically correct.

(iii) **Sarah's interest in environmental conservation led her to volunteer at a local wildlife sanctuary.**

In this sentence, "interest" is used correctly to express Sarah's concern or passion for environmental conservation. It indicates that Sarah has a genuine desire or commitment to protecting the environment, and this interest motivates her to volunteer at a wildlife sanctuary. The usage is both contextually and grammatically correct.

So, in all three statements, the word "interest" has been used correctly to convey the idea of fascination, curiosity, or passion, making the correct answer (e) All of these.

### S27. Ans.(d)

**Sol.** The correct answer is: "**is growing across all price segments**".

Let's break down the sentence and analyze why the highlighted phrase is incorrect and why the other options are incorrect:

**Original Sentence:** "Demand for electronics is growing of all price segments, even as the production of these devices entails the use of scarce elements and high emissions."

**Highlighted Phrase:** "is growing of all price segments"

**Analysis:** The phrase "is growing of all price segments" is grammatically incorrect in this context because it doesn't convey the intended meaning. The sentence is trying to express that the demand for electronics is increasing across all price ranges or categories. The use of "of" is incorrect here, and it should be replaced with a preposition that properly conveys this idea.

Now, let's analyze the provided options:

(a) **is grown over all price segment:** This option uses the phrase "over- all price segment," which is not a suitable replacement for the original phrase. It doesn't convey the correct meaning.

(b) **is growing across all price segment:** This option uses "across all price segment," which is

closer to the correct phrasing but still contains the same error as the original sentence. It should be "price segments" instead of "price segment."

(c) **is growing for all price segments:** This option is not completely correct "for all price segments," as it slightly changes the meaning of the sentence. The phrase "is growing for all price segments" implies that the growth is in favor of all price segments, which might not be the intended meaning. The original sentence suggests that demand is increasing in all price segments, not necessarily for their benefit.

(d) **is growing across all price segments:** This option is the correct choice as it uses the preposition "across" with the plural form "price segments," which accurately conveys that the demand for electronics is increasing in all price categories.

In conclusion, option (d) "**is growing across all price segments**" is the correct choice because it fixes the grammatical error in the original sentence and accurately conveys the intended meaning.

### S28. Ans.(e)

**Sol.** In the original sentence, the highlighted phrase "may have sensed they would get support" is grammatically and contextually correct. Hence, no correction required.

### S29. Ans.(b)

**Sol.** The correct answer is: "**sessions are typically held in each**".

Let's break down the sentence and analyze why the highlighted phrase is incorrect, as well as why the other options are incorrect:

**Original Sentence:** "Although the Constitution doesn't provide for a fixed number of sessions or days of sitting, three sessions are typical held in each calendar year."

**Highlighted Phrase:** "sessions are typical held in each"

**Analysis:** The highlighted phrase "sessions are typical held in each" contains a grammatical error.

The word "typical" is used incorrectly. The phrase "sessions are typical held in each" is not grammatically accurate. The option (b) corrects this error by using "sessions are typically held in each." This change maintains proper subject-verb agreement, and it correctly places the adverb "typically" before the verb "held" to indicate that three sessions are typically held each calendar year. It makes the sentence grammatically correct and conveys the intended meaning accurately.

Now, let's analyze the provided options:

(a) **"session are typically held in each"**: This option uses the plural verb "are" with the singular subject "session," which is a subject-verb agreement error.

(b) **"sessions are typically held in each"**: This option correctly uses the adverb "typically" before the verb "held" making it grammatically correct. This is the correct choice.

(c) **"sessions are typically hold in each"**: This option uses the incorrect verb form "hold," which should be "held" to maintain the proper tense.

(d) **"sessions is typically held in each"**: This option uses the singular verb "is" with the plural subject "sessions," which is a subject-verb agreement error.

In conclusion, **option (b) "sessions are typically held in each"** is the correct choice because it corrects the subject-verb agreement error by using the plural verb "are" with the plural subject "sessions" and using the correct adverb "typically" to make the sentence meaningful.

**S30. Ans.(c)**

**Sol.** The correct answer is: **"is undergoing a churn too, driven by"**.

Let's analyze the sentence and identify the issues with the highlighted phrase, as well as explain why the incorrect options are not suitable.

**Original Sentence:** "The ceiling fan market are undergoing a churn too, driven by policy imperatives and a regulation change."

**Highlighted Phrase:** "are undergoing a churn too, driven by"

**Analysis:** The highlighted phrase "are undergoing a churn too, driven by" has a subject-verb agreement error. The subject "market" is singular, but the verb "are" is plural. The correct form should be "market is undergoing" to match the singular subject "market."

Now, let's examine the provided options:

(a) **"is undergoing a churn too, driven for"**: This option replaces the verb "are" with "is," which is the correct singular form. However, it introduces the preposition "for" after "driven," which does not fit the context. The correct preposition is "by" to indicate the cause or reason for the churn.

(b) **"is undergoing a churn to, driven by"**: This option replaces "are" with "is," which is correct. However, it introduces "to" after "churn," which changes the meaning of the sentence and is not suitable in this context. "By" is the correct preposition to indicate the cause or reason.

(c) **"is undergoing a churn too, driven by"**: This option is the correct choice. It corrects the subject-verb agreement error by using the singular verb "is" with the singular subject "market." It also correctly uses "driven by" to indicate the cause of the churn.

(d) "is undergone a churn too, driven by": This option uses the past participle "undergone" instead of the present participle "undergoing," which is incorrect. It should describe the ongoing action of the market, so "undergoing" is the appropriate form.

In conclusion, option (c) "is undergoing a churn too, driven by" is the correct choice as it corrects the subject-verb agreement error and maintains the correct preposition "by" to indicate the cause of the churn.

**S31. Ans.(e)**

**Sol.**

Pattern of series –

$$\begin{array}{cccccc} 20, & 32, & 47, & 57, & 74, & ? = 80 \\ +12 & +15 & +10 & +17 & +6 & \\ +3 & -5 & +7 & -11 & & \end{array}$$



**S32. Ans.(c)**

**Sol.**

Pattern of series –

$$\begin{array}{cccccc} \text{Pattern of series –} \\ 32, & 40 & 53, & 76, & ? = 114, & 172 \\ +8 & +13 & +23 & +38 & +58 & \\ +5 & +10 & +15 & +20 & & \end{array}$$

**S33. Ans.(b)**

**Sol.**

Pattern of series –

$$\begin{array}{cccccc} 40, & 66, & 116, & 198, & 320, & ? = 490 \\ +26 & +50 & +82 & +122 & +170 & \\ +24 & +32 & +40 & +48 & & \\ +8 & +8 & +8 & & & \end{array}$$

**S34. Ans.(d)**

**Sol.**

Pattern of series –

$$\begin{array}{cccccc} 80, & ? = 92, & 117, & 168, & 271, & 478 \\ +12 & +25 & +51 & +103 & +207 & \\ +13 & +26 & +52 & +104 & & \end{array}$$

**S35. Ans.(a)**

**Sol.**

Pattern of series –

$$\begin{aligned} 100 + 61 &= 161 \\ 161 + 67 &= 228 \\ 228 + 71 &= 299 \\ 299 + 73 &= 372 \\ 372 + 79 &= 451 \end{aligned}$$

**S36. Ans.(c)**

**Sol.**

Pattern of series –

$$\begin{aligned} 500 \times \frac{10}{100} &= 50 \\ 50 \times \frac{20}{100} &= 10 \\ 10 \times \frac{30}{100} &= 3 \\ 3 \times \frac{40}{100} &= 1.2 \\ 1.2 \times \frac{50}{100} &= 0.6 \end{aligned}$$

**S37. Ans. (a)**

**Sol.** Let the cost price be 100x.

And marked price =  $100x \times \frac{120}{100} = 120x$

ATQ,

$$120x \times \left(\frac{100-d}{100}\right) = 100x \times \left(\frac{100-(d-11)}{100}\right)$$

$$\frac{6}{5} = \frac{100-d+11}{100-d}$$

$$600 - 6d = 500 - 5d + 55$$

$$600 - 500 - 55 = d$$

$$d=45\%$$

$$\text{Selling price of Q} = 200 \times (100 + 1.5d)\% = \text{Rs.335}$$

### S38. Ans. (a)

**Sol.** Cumulative interest for 2 years and 10 days as 2 years approximately.

$$\text{Rate of interest} = 11 + 11 + \frac{11 \times 11}{100} = 22 + 1.21 = 23.21\%$$

$$\text{Compound interest} = 20000 \times \frac{23.21}{100} = \text{Rs.4642}$$

$$\text{Amount} = 20000 + 4642 = \text{Rs.24642}$$

$$\text{Simple interest} = \frac{24642 \times 2 \times 11}{100} = \text{Rs.5421.24} =$$

$$\text{Rs.5421}$$

### S39. Ans. (d)

**Sol.** Let the quantity of milk and water be  $300x$  and  $200x$  respectively.

$$\text{Taken out quantity} = 75x \times \frac{(300+200)x}{100} = 375 \text{ liter}$$

$$\text{Quantity of milk taken out} = 375 \times \frac{3}{5} = 225x$$

$$\text{Quantity of water taken out} = 375 \times \frac{2}{5} = 150x$$

$$\text{Water added} = 40 \times \frac{60}{100} = 24 \text{ liter}$$

$$\text{Milk added} = 40 \times \frac{40}{100} = 16 \text{ liter}$$

ATQ,

$$\frac{300x - 225x + 16}{200x - 150x + 24} = \frac{\frac{400}{9}}{100 - \frac{400}{9}}$$

$$\frac{75x + 16}{50x + 24} = \frac{4}{5}$$

$$375x + 80 = 200x + 96$$

$$175x = 16$$

$$x = \frac{16}{175}$$

$$\text{Quantity of milk initially} = \frac{16}{175} \times 300 = \frac{192}{7} \text{ liters}$$

### S40. Ans. (a)

**Sol.** Total work completed by A, B and C =  $2 \times \frac{3}{2} = 3 \text{ days}$

Total work completed by A and B together =  $\frac{100}{30} \times 3 = 10 \text{ days}$

Total work = 30 (LCM of 3 and 10)

Efficiency of C =  $\frac{30}{3} - \frac{30}{10} = 10 - 3 = 7 \text{ unit/day}$

Required time =  $\frac{\frac{14}{3} \times 30}{7} = 20 \text{ days}$

### S41. Ans.(b)

**Sol.** I.  $4x^2 + 10x + 10x + 25 = 0$

$$2x(2x+5) + 5(2x+5) = 0$$

$$(2x+5)(2x+5)=0$$

$$x = -2.5, -2.5$$

II.  $2y^2 + 5y + 6y + 15 = 0$

$$y(2y + 5) + 3(2y + 5) = 0$$

$$(y+3)(2y+5)=0$$

$$y = -2.5 - 3$$

So,  $x \geq y$

### S42. Ans.(e)

**Sol.** I.  $3x^2 - 9x - 5x + 15 = 0$

$$3x(x-3) - 5(x-3) = 0$$

$$(3x-5)(x-3)=0$$

$$x = 3, \frac{5}{3}$$

II.  $6y^2 - 31y + 18 = 0$

$$6y^2 - 27y - 4y + 18 = 0$$

$$3y(2y - 9) - 2(2y - 9) = 0$$

$$(3y-2)(2y-9)=0$$

$$y = \frac{9}{2}, \frac{2}{3}$$

So, no relation

### S43. Ans.(a)

**Sol.** I.  $4x^2 - 8x - 8x + 16 = 0$

$$4x(x - 2) - 8(x - 2) = 0$$

$$(4x - 8)(x - 2) = 0$$

$$x = 2, 2$$

$$\text{II. } 10y^2 - 15y - 14y + 21 = 0$$

$$5y(2y - 3) - 7(2y - 3) = 0$$

$$(5y - 7)(2y - 3) = 0$$

$$y = \frac{7}{5} \text{ and } \frac{3}{2}$$

So,  $x > y$

#### S44. Ans. (d)

$$\text{Sol. I. } 3x^2 - 37x + 114 = 0$$

$$3x^2 - 19x - 18x + 114 = 0$$

$$x(3x - 19) - 6(3x - 19) = 0$$

$$(x - 6)(3x - 19) = 0$$

$$x = \frac{19}{3}, 6$$

$$\text{II. } 3y^2 - 46y + 171 = 0$$

$$3y^2 - 27y - 19y + 171 = 0$$

$$3y(y - 9) - 19(y - 9) = 0$$

$$(3y - 19)(y - 9) = 0$$

$$y = \frac{19}{3}, 9$$

So,  $x \leq y$

#### S45. Ans.(d)

$$\text{Sol. I. } 2x^2 + 13x - 150 = 0$$

$$2x^2 - 12x + 25x - 150 = 0$$

$$2x(x - 6) + 25(x - 6) = 0$$

$$(2x + 25)(x - 6) = 0$$

$$x = -12.5, 6$$

$$\text{II. } y^2 - 17y + 66 = 0$$

$$y^2 - 11y - 6y + 66 = 0$$

$$y(y - 11) - 6(y - 11) = 0$$

$$(y - 6)(y - 11) = 0$$

$$y = 11, 6$$

So,  $x \leq y$

#### Sol. (46-51):

For Club A, Total people visited = 2500

$$\times \frac{24}{100} = 600$$

$$\text{Total male visited} = 1200 \times \frac{20}{100} = 240$$

So, total female visited =  $600 - 240 = 360$

For club B, Total people visited =

$$2500 \times \frac{16}{100} = 400$$

$$\text{Total male visited} = 1200 \times \frac{15}{100} = 180$$

$$\text{Total female visited} = 400 - 180 = 220$$

For club C, total people visited = 2500

$$\times \frac{18}{100} = 450$$

$$\text{Total male visited} = 1200 \times \frac{35}{100} = 420$$

$$\text{Total female visited} = 450 - 420 = 30$$

For club D, total people visited = 2500

$$\times \frac{30}{100} = 750$$

$$\text{Total male visited} = 1200 \times \frac{12}{100} = 144$$

$$\text{Total female visited} = 750 - 144 = 606$$

For club E, total people visited club E

$$= 2500 \times \frac{12}{100} = 300$$

$$\text{Total male visited} = 1200 \times \frac{18}{100} = 216$$

$$\text{Total female visited} = 300 - 216 = 84$$

Clubs	Total people	Total males	Total females
A	600	240	360
B	400	180	220
C	450	420	30
D	750	144	606
E	300	216	84

#### S46. Ans.(d)

Sol. Total females visited club B and C =  $(220 + 30) = 250$

$$\text{Required percentage} = \frac{250}{750} \times 100 = 33.33\%$$

#### S47. Ans.(b)

Sol. Total females visited club F =  $84 \times \frac{125}{100} = 105$

Total people visited club F =  $144 \times \frac{11}{9} = 198$

So, Total males visited club F =  $198 - 105 = 93$



Required ratio =  $\frac{93}{216} = 31:72$

**S48. Ans.(c)**

**Sol.** Total number of females visited club X =  $126 \times 3 - (220 + 84) = 74$

Total males visited club X =  $240 \times \frac{45}{100} = 108$

Required difference =  $(360 + 30) - (108 + 74) = 208$

**S49. Ans.(c)**

**Sol.** Total revenue for club A by total males =  $240 \times 150 = 36000 \text{ Rs}$

Total revenue for club B by total males =  $180 \times 200 = 36000 \text{ Rs}$

Total revenue for club E by total males =  $216 \times 250 = 54000 \text{ Rs}$

Required revenue =  $36000 + 36000 + 54000 = 126000 \text{ Rs}$

**S50. Ans.(e)**

**Sol.** Total Females visited clubs D and E =  $606 + 84 = 690$

Total females visited clubs A and B =  $360 + 220 = 580$

Required parentage =  $\frac{690-580}{580} \times 100 = 18.96 = 19\%$

**S51. Ans.(c)**

**Sol.** Total males whose age below 25 years in club C =  $(420 - 20) \times \frac{3}{8} = 150$

Total males whose age below 25 years in club B =  $(220 - 40) \times \frac{2}{3} = 120$

Required sum =  $150 + 120 = 270$

**Sol (52 - 57):**

ATQ,

$15x - 2y + y = 50$

$15x - y = 50 \dots(i)$

$16x + 9y = 154 \dots(ii)$

Solving (i) and (ii)

$x = 4$  and  $y = 10$

Cities	Males in Private company	Males in Public company	Females (private + public)
A	$15x = 60 - 20 = 40$	$y = 10$	55
B	$16x = 64$	16	108
C	$9y = 90$	24	74
D	84	21	85

**Q52. Ans. (a)**

**Sol.** Females working in public companies from

A =  $\frac{60}{100} \times 55 = 33$

Required ratio =  $33: (84+21) = 33:105 = 11 : 35$

**S53. Ans. (a)**

**Sol.** Females working in private company from B

=  $\frac{24 \times 5}{4} = 30$

Females working in public company from B =  $108 - 30 = 78$

Required percentage =  $\frac{78}{10} \times 100 = 780\%$

**S54. Ans. (d)**

**Sol.** Males in F =  $2 \times 200 - (90 + 24) = 286$

Total employees in F =  $286 \times \frac{100}{20} = 1430$

Required answer =  $1430 - 1000 = 430$

**S55. Ans. (d)**

**Sol.** Total females working in public company from all the cities =  $50\%$  of  $(55+108+74+85) = 161$

Total employees working in public company =  $161 + 71 = 232$

**S56. Ans. (d)**

$$\text{Sol. Average} = \frac{40+64+90+84}{4} = 69.5$$

Only in city A & B, the males are less the average males.

**S57. Ans. (d)**

$$\text{Sol. Required percentage} = \frac{90+2}{108} \times 100 = 105.55 \\ = 106\%$$

**S58. Ans.(b)**

$$\text{Sol. ATQ, } \frac{8a+4}{11a-1} = \frac{3}{4}$$

$$32a + 16 = 33a - 30$$

$$a = 46$$

$$\text{So, fraction} = \frac{372}{496}$$

$$\text{Now, required value} = \frac{372-4}{496-10} = \frac{368}{486} = \frac{184}{243}$$

**S59. Ans.(d)**

**Sol.** Let speed of boat in still water be  $x$  km/hr and speed of stream be  $y$  km/hr

$$\frac{x-y}{x+y} = \frac{3}{5}$$

$$5x - 5y = 3x + 3y$$

$$2x = 8y$$

$$x = 4y$$

$$\text{ATQ, } t = \frac{90}{5y}$$

$$t = \frac{18}{y} \text{ -----(i)}$$

$$\text{And } t = \frac{72}{3y} - 1$$

$$t = \frac{24-y}{y} \text{ ---- (ii)}$$

From (i) and (ii) we get –

$$y = 6$$

$$\text{So, } x = 24$$

$$\text{Required speed} = (24+6) = 30 \text{ km/hr}$$

**S60. Ans.(c)**

**Sol.** let speed of the train be  $s$  km/hr

$$s = \frac{240}{x} \text{ -----(i)}$$

$$s = \frac{600}{(x+9)} \text{ -----(ii)}$$

From (i) and (ii) we get –

$$\frac{240}{x} = \frac{600}{x+9}$$

$$5x = 2x + 18$$

$$x = 6$$

$$\text{So, speed of train} = \frac{240}{6} = 40 \text{ m/sec}$$

$$\text{Required time} = \frac{240}{40-36 \times \frac{5}{18}} = 8 \text{ seconds}$$

**S61. Ans.(d)**

**Sol.** Let length & breadth of rectangle be 'l' & 'b' respectively

ATQ –

$$\frac{l \times (b+4) - (l-4) \times b}{lb} = \frac{4}{9}$$

$$9(4l + 4b) = 4lb$$

$$9(2l + 2b) = 2lb$$

$$(2l + 2b) : lb = 2 : 9$$

**S62. Ans (e)**

**Sol.** Profit sharing ratio of A to B

$$= 5X \times 12 : (5X - 400) \times 6 + (5X - 400 + 200) \times 6$$

$$= 5X \times 12 : 6 \times (5X - 400 + 5X - 200)$$

$$= 5X \times 12 : 6 \times (10X - 600)$$

ATQ,

$$\frac{5X \times 12}{6 \times (10X - 600)} = \frac{600}{510}$$

$$17X = 20X - 1200$$

$$3X = 1200$$

$$X = 400$$

**S63. Ans (b)**

**Sol.** Let monthly salary of A be Rs.100x

Expenditure on house rent =Rs. 20x

$$\text{Expenditure on travelling} = (100x - 20x) \times \frac{25}{100} =$$

Rs.  $20x$

$$\text{Expenditure on food} = (100x - 20x - 20x) \times \frac{3}{8} =$$

Rs.  $22.5x$

Expenditure **on children's education** =

$$(100x - 20x - 20x) \times \frac{5}{8} = \text{Rs. } 37.5x$$

ATQ,

$$37.5x - 20x = 700$$

$$x = 40$$

Monthly salary of A =  $40 \times 100 = \text{Rs. } 4000$

**S64. Ans.(b)**

**Sol.**

ATQ, Given Man age = 34 years

Man's wife age =  $34 - 5 = 29$  years

$$3q + 2p = 34 \quad (1)$$

$$\text{Also, } p - q = 3 \quad (2)$$

Solving (1) & (2),

$$p = 8, \quad q = 5$$

$$\text{required average age} = \frac{34+29+8+5}{4} = 19 \text{ years}$$

**S65. Ans.(c)**

**Sol.**

Approx. value asked

$$\text{Initial quantity of milk in vessel} = 80 \times \frac{3}{5} = 48$$

liters

$$\text{Initial quantity of water in vessel} = 80 - 48 = 32$$

liters

Let quantity of milk in the mixture mixed later =  $x$  liters

So, quantity of water in the mixture mixed later =  $(60 - x)$

$$\text{ATQ, } \frac{48 - 20 \times \frac{3}{5} + x}{32 - 20 \times \frac{2}{5} + (60 - x)} = \frac{2}{1}$$

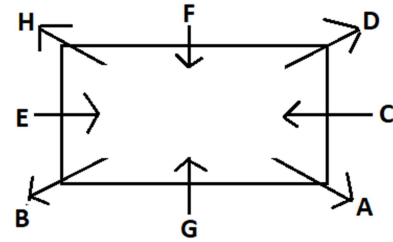
$$\frac{36 + x}{84 - x} = \frac{2}{1}$$

$$36 + x = 168 - 2x$$

$$x = 44$$

$$\text{Quantity of water} = 60 - x = 60 - 44 = 16$$

**Directions (66-70):**



**S66. Ans. (c)**

**Sol. "A"**

**S67. Ans. (b)**

**Sol. "Three"**

**S68. Ans. (d)**

**Sol. "H"**

**S69. Ans. (b)**

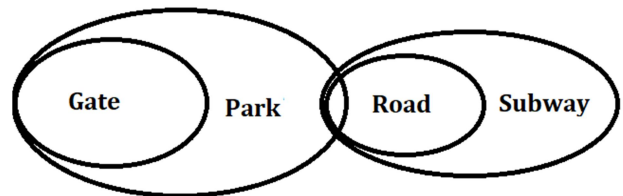
**Sol. "C"**

**S70. Ans. (a)**

**Sol. "B"**

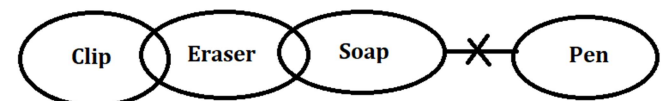
**S71. Ans. (b)**

**Sol.**



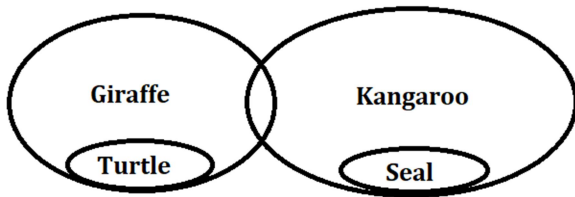
**S72. Ans. (c)**

**Sol.**



S73 Ans. (b)

Sol.



S74. Ans. (a)

S75. Ans. (e)

Directions (76-80):

Box	Fruits
E	Orange
A	Guava
C	Mango
B	Banana
D	Apple

S76. Ans. (a)

Sol. "Box A"

S77. Ans. (d)

Sol. "Three"

S78. Ans. (b)

Sol. "Box A"

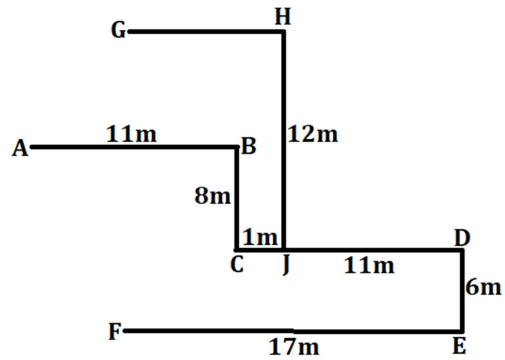
S79. Ans. (d)

Sol. "Two"

S80. Ans. (a)

Sol. "Box D"

Directions (81-83):



S81. Ans. (b)

Sol. The shortest distance between Point G and Point F is 18m

S82. Ans. (c)

Sol. Point F is South-west of Point D

S83. Ans. (c)

Sol. Point G is North-west of Point E

Directions (84-88):

Final arrangement:

Months	Dates	Persons	States
May	9 <sup>th</sup>	R	Kerala
	26 <sup>th</sup>	U	Goa
June	9 <sup>th</sup>	P	Odisha
	26 <sup>th</sup>	S	Assam
July	9 <sup>th</sup>	T	Delhi
	26 <sup>th</sup>	Q	Sikkim

S84. Ans. (a)

Sol. The person who travels to Assam travels in the month of June

S85. Ans. (d)

Sol. S travels on 26<sup>th</sup> June

S86. Ans. (b)

**Sol.** Three persons travel after the person who travel to Odisha

**S87. Ans. (d)**

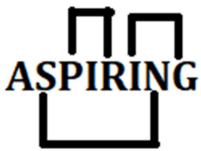
**Sol.** Q travels to Sikkim

**S88. Ans. (c)**

**Sol.** Combination in option(c) is correct

**S89. Ans. (a)**

**Sol.**



**Directions (90-94):**

City	Person
Barcelona	Q, V, N
Dehradun	P, Z
Texas	Y, L, O, W

**S90. Ans. (c)**

**S91. Ans. (c)**

**S92. Ans. (d)**

**S93. Ans. (b)**

**S94. Ans. (a)**

**Directions (95-97):**

**S95. Ans. (a)**

**Sol. I.**  $I < X$  (True)

**II.**  $R > U$  (False)

**S96. Ans. (d)**

**Sol. I.**  $7 > 6$  (False)

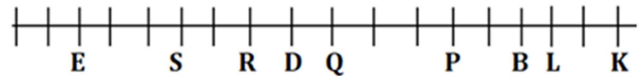
**II.**  $1 > 2$  (False)

**S97. Ans. (c)**

**Sol. I.**  $E > N$  (False)

**II.**  $H \geq E$  (False)

**Directions (98-100):**



**S98. Ans. (b)**

**S99. Ans. (a)**

**S100. Ans. (c)**

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## IBPS PO Previous Year Questions Papers With Solutions -2022

**Directions (1-9): Read the following passage carefully and answer the questions given below it. Certain words have been given in bold to help you locate them, while answering some of the questions.**

A tourist's paradise, India is a magnum of diverse geography and cultures, offering 30 World Heritage sites, 25 biogeographical zones and attractive beaches. Tourism in India accounts for 6.8% of the GDP, and is the third largest foreign exchange earner for the country with USD 18.13 Billion. Neglecting the promotion of tourism is **harmful** to the Indian economy. In recent years, there has been an increased realization that the tourism growth potential can be harnessed as a strategy for Rural Development. With 69% population living in rural India, and almost 6.5 million village units spread across the country, India plays a **vital** role in harnessing rural tourism. The geographical diversity of India makes it a unique spot for harnessing rural tourism which can include tourist sites like desert, mountains, plains, plateaus, islands and coasts in different regions. India showcases a variety of cultural patterns having different lifestyles, practices, art and craft, and festivals. These can be incorporated and \_\_\_\_\_ in the form of rural tourism.

Factors such as increasing level of awareness, growing interest in heritage and culture, and improved accessibility have fueled a **move** of trends towards rural tourism. This will not only preserve the culture and heritage of the country, but will also generate employment in the villages since it can be leveraged to provide skill development in tourism related job roles such as

that of guide, driver, cook, housekeeping and hospitality to the tourists. Ministry of Tourism specifies that any form of tourism that showcases the rural life, art, culture and heritage at rural locations, benefits the local community economically and socially, and enables interaction between the tourists and the locals can be termed as rural tourism. Rural tourism may include multiple facets such as farm tourism, cultural tourism, nature tourism, adventure tourism, and eco-tourism. The country has seen successful rural tourism models in states such as Kerala's backwater, Karnataka's forest, and Tamil Nadu's temple.

**Q1.** What is the importance of tourism for the growth of the Indian economy?

- (a) Tourism is crucial for the enhancement of India's goodwill internationally
- (b) The contribution of travel and tourism to GDP in India is six and eight tenth percent
- (c) Government earns a major part of its revenue from taxes on the tourism sector
- (d) Tourism is the third largest source of foreign exchange earnings in India
- (e) Both (b) and (d)

**Q2.** Which of the following fall(s) under the definition of rural tourism set by the Ministry of Tourism?

- (a) Tourism should have social and economic advantages for the local community.
- (b) Tourism should exhibit heritage in villages, rural life, art, and culture.
- (c) Tourism should promote interaction between tourists and the natives.
- (d) All of these
- (e) Only (a) and (c)

**Q3.** In what ways rural areas get benefitted from tourism?

- (a) Tourism gives rise to various employment and conserves culture and heritage.
- (b) Rural areas experience drastic transformation to become attractive enough for travelers
- (c) Local cuisines can get promoted through tourism, which in long run helps them in getting GI tag.
- (d) Rural people get opportunity to take their culture to national and international level
- (e) Both (a) and (b)

**Q4.** What make(s) rural areas attractive tourist destinations?

- (a) The heterogeneity of culture of Indian rural areas attracts tourists
- (b) Green environment along with pollution-free fresh air tempts tourists
- (c) Diversity in physical features of rural areas of India is a ground for tourism
- (d) Hospitality of the rural population provokes tourism in Indian villages
- (e) Both (a) and (c)

**Q5.** Which of the following statements is **Incorrect** as per the information given in the passage?

- (a) Adventure tourism is one of the several facets of tourism in India.
- (b) Karnataka's backwater has been a successful rural tourism model in India.
- (c) India has 30 world heritage sites and 25 biogeographical zones.
- (d) India's sixty-nine percent population resides in rural areas
- (e) All are correct

**Q6.** Which of the following words is a synonym of **MOVE** given in the passage?

- (a) convey
- (b) crawl
- (c) shift
- (d) mutter
- (e) None of these

**Q7.** Which of the following words is the most suitable for the given blank in the passage?

- (a) amplified
- (b) leveraged
- (c) fortified
- (d) invoked
- (e) None of these

**Q8.** Which of the following words is an antonym of **VITAL** given in the passage?

- (a) retreat
- (b) timid
- (c) precise
- (d) trivial
- (e) None of these

**Q9.** Which of the following words is a synonym of **HARMFUL** given in the passage?

- (a) detrimental
- (b) ameliorate
- (c) fugitive
- (d) consorted
- (e) None of these

**Directions (10-14):** In the following questions, six sentences are given. You have to rearrange these sentences to make a contextually meaningful paragraph. After rearranging the given sentences, answer the questions given below.

(A) Challenging Victorian dogma, Darwin argued that species were not immutable i.e., each one specially created by God.

(B) That is all he wrote about the dawning of the single most consequential species on the planet.

(C) In 1859, Charles Darwin published the most important scientific book that is ever written 'On the Origin of Species'.

(D) Rather life on Earth had evolved through descent from a common ancestor with modification by means of natural selection.

(E) It revolutionized society's understanding of the natural world.

(F) But, surprisingly on Homo sapiens, Darwin made only a passing mention, that "light will be thrown on the origin of man and his history".

**Q10.** Which of the following will be the third statement after rearrangement?

- (a) C
- (b) B
- (c) D
- (d) F
- (e) A

**Q11.** Which of the following will be the fifth statement after rearrangement?

- (a) C
- (b) B
- (c) D
- (d) F
- (e) A

**Q12.** Which of the following will be the first statement after rearrangement?

- (a) C
- (b) B
- (c) D
- (d) F
- (e) A

**Q13.** Which of the following will be the second statement after rearrangement?

- (a) C
- (b) B

- (c) E
- (d) D
- (e) A

**Q14.** Which of the following will be the only coherent rearrangement of the given sentences?

- (a) CDEABF
- (b) FDCBAE
- (c) ECDBAF
- (d) CEADFB
- (e) BDCBFE

**Directions (15-19):** In the following questions, few sentences are given. Choose and mark the sentence which does not contain any grammatical or contextual error in it. If all the sentences are grammatically and contextually correct, mark the "all are correct" option as the answer choice.

**Q15.** (a) An appreciation of beauty can and should involve consideration of virtue and the improvement of morality character.

(b) Greek scholars and poets were held discussions in the walled recesses of exedrae, which were often used for rest and contemplation.

(c) High glucose levels disrupt the body's inflammatory system, leading for a host of complications, and a number of diseases.

(d) Since the overthrow of the dictator Ferdinand Marcos, in 1986, the Philippines has been a democracy, if an often dysfunctional one.

(e) All are correct

**Q16.** (a) Official days and months to recognize this or that group can seem gratuitous and ultimately meaningless while we as a society choose to take them seriously.

(b) We argue rashly and adventurously, by reason that, as well as ourselves, our discourses have great participation in the temerity of chance.



(c) Help is desperately needed to support wildlife rangers, local communities, and law enforcement personnel to have prevented wildlife crime.

(d) Responding to the pandemic has led to the creation of the most intrusive and stringent laws of modern times, affecting every aspect of our lives.

(e) All are correct

**Q17.** (a) Critics have long argued that the expansion of the fair-trade movement across the European countries have come with significant costs.

(b) Events in the early 1990s mark the end of legislated apartheid, but the social and economic effects remained deeply entrenched.

(c) Long, floating bridges are extremely sensitive to stormy weather and high winds, which can cause them to destabilise.

(d) Like all functional role concept, truth must be realized, and it may be realized in different ways in different settings.

(e) All are correct

**Q18.** (a) In terms of social cachet and temporal precedence, bicyclists are believed to be worse off than everyone else.

(b) Funneling investments through banks that toed the government line allowed political considerations to take precedence over risk assessment.

(c) Last year, the government issued every taxpayer a \$1200 refund in hopes of restoring equilibrium to a depressed economy.

(d) The variety of New York's geography provides not only great beauty but also opportunities for recreation.

(e) All are correct

**Q19.** (a) In Descartes' system, it would appear that laws of physics are necessary or that eternal truths are necessary as well.

(b) Travellers often complain that it isn't fair to be charged more for a hotel room during the summer from in the winter.

(c) Email exchanges can often escalate or fizzle out, whereas face-to-face meetings often cut by some of the adversarial email responses sometimes generated by differences in culture and approach.

(d) In an ideal society, a free people will be governed by a law that is not arbitrary, but rather corresponds to what is fit, and is able to be apprehended by reason.

(e) All are correct

**Directions (20-22): In each question, four words have been highlighted, which may or may not be in their correct positions. Choose the rearrangement order of these highlighted words from the given options so that it gives a coherent sentence.**

**Q20.** Replacing the office's **technology** (A) computer **outdated** (B) with new **system** (C) would **allow** (D) the workers to get a lot more done.

(a) ACDB

(b) BCAD

(c) DBCA

(d) CADB

(e) No rearrangement needed

**Q21.** The **allure** (A) of the **fresh** (B) herbs caused the chef to **intended** (C) more money than he **spend** (D) at the market.

(a) BACD

- (b) DCAB
- (c) ABDC
- (d) CDAB
- (e) No rearrangement needed

**Q22.** There is a **horizon** (A)of **outskirt** (B)buildings on the **industrial** (C)of our small town, but we tend to ignore them since they ruin the **cluster** (D).

- (a) DCBA
- (b) DCAB
- (c) ABDC
- (d) CDAB
- (e) No rearrangement needed

**Directions (23-25):** In each question, four words have been highlighted, which may or may not be in their correct positions. Choose the interchange needed between them to make a grammatically correct and meaningful sentence.

**Q23.** My art **project** (A)required me to **assemble** (B)a **clippings** (C)of magazine **collection** (D).

- (a) Only (A)-(B)
- (b) Only (C)-(D)
- (c) Both (A)-(C) and (B)-(D)
- (d) Both (A)-(D) and (B)-(C)
- (e) No replacement needed

**Q24.** You will never be able to find a **better** (A) company than a dog, as a dog will always **loyal** (B) by you and be **stand** (C)to you if you **treat** (D)him right.

- (a) Only (A)-(C)
- (b) Only (B)-(C)
- (c) Both (A)-(B) and (C)-(D)
- (d) Both (A)-(D) and (B)-(C)

- (e) No replacement needed

**Q25.** The playground was **jumped** (A)with **equipment** (B)as fifty students **filled** (C)and climbed all over the **mayhem** (D)

- (a) Only (A)-(C)
- (b) Only (B)-(C)
- (c) Both (A)-(C) and (B)-(D)
- (d) Both (A)-(D) and (B)-(C)
- (e) No replacement needed

**Directions (26-27):** Each question below has one blank, which is indicating that something has been omitted. Find out which option can be used to fill up the blank in the sentence to make it grammatically as well as contextually correct.

**Q26.** The losing team made a \_\_\_\_\_ but futile effort to catch up to their opponent.

- (a) illustrious
- (b) valiant
- (c) refrained
- (d) reached
- (e) redundant

**Q27.** My grandmother has extremely \_\_\_\_\_ health so she sees her doctor once a week.

- (a) cripple
- (b) reliant
- (c) splendid
- (d) fragile
- (e) elevated

**Directions (28-30):** In the following question, sentences are given with a part in bold. The given phrase in the bold may or may not contain an error. The options following can replace the incorrect phrase. The correct phrase that is to be replaced will be your

answer. If the sentences are correct then select option (e) i.e. 'No replacement required' as your answer.

**Q28.** If I will study, I would have passed the exam.

- (a) I had studied
- (b) had I studied
- (c) I have studied
- (d) Have I studied
- (e) No replacement required

**Q29.** She felt an overwhelming desire to return back home.

- (a) desire of returning back
- (b) desires to return
- (c) desire to returned back
- (d) desire to return
- (e) No replacement required

**Q30.** No sooner had I closed my eyes than I fell asleep.

- (a) No soon had I
- (b) No soon I had
- (c) I had no sooner
- (d) No sooner I have
- (e) No replacement required

**Direction (31 – 35):** In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answers.

**Q31. I.**  $x^2 - 15x + 56 = 0$

**II.**  $y^2 - 8y + 15 = 0$

- (a)  $x \geq y$
- (b)  $x \leq y$
- (c)  $x > y$
- (d)  $x < y$
- (e)  $x = y$  or no relation.

**Q32. I.**  $x^2 + 12x + 35 = 0$

**II.**  $y^2 + 7y + 10 = 0$

- (a)  $x \geq y$
- (b)  $x \leq y$
- (c)  $x > y$
- (d)  $x < y$
- (e)  $x = y$  or no relation.

**Q33. I.**  $x^2 - 3x - 40 = 0$

**II.**  $y^2 + 11y + 30 = 0$

- (a)  $x \geq y$
- (b)  $x \leq y$
- (c)  $x > y$
- (d)  $x < y$
- (e)  $x = y$  or no relation.

**Q34. I.**  $2x^2 + 14x - 16 = 0$

**II.**  $y^2 - y - 12 = 0$

- (a)  $x \geq y$
- (b)  $x \leq y$
- (c)  $x > y$
- (d)  $x < y$
- (e)  $x = y$  or no relation.

**Q35. I.**  $2x^2 - x - 3 = 0$

**II.**  $2y^2 - 6y + 4 = 0$

- (a)  $x = y$  or no relation.
- (b)  $x \leq y$
- (c)  $x > y$
- (d)  $x < y$
- (e)  $x \geq y$

**Direction (36 – 40):** Read the given data carefully and answer the questions.

There are 900 students in a college and they are either from one or more categories i.e. A, B and C games. The ratio of total students in only A, only B and only C is 2 : 3 : 5 respectively. Total

students in all three categories are 50% of total students in only C. The sum of total students who are in only B & C but not A and total students who are in only A & C but not B is 155. Total number of students who are in A & B but not C are 30 less than total number of students who are in only B.

**Q36.** Find the difference between total students in all three categories and the number of students in category A.

- (a) 40
- (b) can't determined
- (c) 50
- (d) 55
- (e) 32

**Q37.** Find the ratio of total students in category B to that of in category C?

- (a) can't determined
- (b) 2 : 3
- (c) 3 : 5
- (d) 2 : 7
- (e) 3 : 4

**Q38.** If in only category A, 30% are boys. Find the total number of girls in only category A?

- (a) 56
- (b) 70
- (c) 49
- (d) 72
- (e) 80

**Q39.** Find the total number of students are in at most two categories?

- (a) 755
- (b) 765
- (c) 715
- (d) 775
- (e) 735

**Q40.** Find the total number of students are in only one category?

- (a) 300
- (b) 500
- (c) 400
- (d) 600
- (e) 800

**Direction (41-45):** What will come in the place of question (?) mark in following number series:

**Q41.** 2, 6, 12, 20, 30, ?

- (a) 46
- (b) 42
- (c) 44
- (d) 48
- (e) 52

**Q42.** 24, 49, ?, 219, 388, 677

- (a) 98
- (b) 108
- (c) 88
- (d) 96
- (e) 78

**Q43.** 48, 55, 76, ?, 160, 223

- (a) 122
- (b) 101
- (c) 111
- (d) 119
- (e) 114

**Q44.** 15, 16.5, 19.5, 24, ?, 37.5

- (a) 40
- (b) 30
- (c) 32
- (d) 33
- (e) 36

**Q45.** 2, 6, 30, 210, ?, 20790

- (a) 1890
- (b) 1860
- (c) 1990
- (d) 1830
- (e) 1960

**Q46.** Present age of A is 12 years more than C, while C is three years younger than B. The ratio of present age of A to that of B is 6 : 5. Find the sum of age (in years) of B and C ten years hence will be?

- (a) 117
- (b) 103
- (c) 107
- (d) 111
- (e) 105

**Q47.** A and B invested Rs. X & Rs. (X +900) respectively in a business. After eight months, B left the business. At the end of a year, the total profit is Rs. 5800 and profit share of B is Rs. 1000 more than that of A. Find X (in Rs.).

- (a) 1000
- (b) 1600
- (c) 600
- (d) 1200
- (e) 800

**Q48.** In a vessel water is 25% of the milk. When 10 liters of mixture was taken out from the vessel and 25 liters' milk was added in the vessel, then quantity of milk become 400% more than the quantity of water in resulting mixture. Find the initial quantity (in liters) of milk in the vessel.

- (a) 116
- (b) 108
- (c) 102
- (d) 112
- (e) 114

**Q49.** The sum of cost price of two articles A and B is Rs. 350. Both articles marked up 60% above cost price. If marked price of article B is Rs. 80 more than that of A, then find the cost price (in Rs.) of article A?

- (a) 165
- (b) 135
- (c) 155
- (d) 195
- (e) 145

**Q50.** Perimeter of a rectangle is 108 cm and length of rectangle is 40 cm. Find how many semicircles of maximum radius can be drawn inside the rectangle?

- (a) 12
- (b) 13
- (c) 14
- (d) Can't determined
- (e) 17

**Q51.** The ratio of upstream to downstream speed of a boat is 3 : 5 and the approximate time to cover 60 km 3 meters downstream and 60 km 2 meters upstream is 16 hours 10 minutes. Find time (approx.) taken by boat to cover 37 km in upstream?

- (a) 4 hours
- (b) 8 hours
- (c) 6 hours
- (d) 12 hours
- (e) 10 hours

**Q52.** The station B lies between station A and C. The distance between A & B is 400 km and the distance between B & C is 375 km. Time taken by a train to cover distance between A & B and distance between B & C is same. If speed of the train to cover distance between A & B is 40 km/hr. then find the difference between the average speed of the train and the speed of train by which it covers distance between B & C?

- (a) 1.75
- (b) 1.25
- (c) 1.15
- (d) 1.35
- (e) 2.25

**Q53.** Efficiency of Ritu is 60% more than Rakesh and difference between the number of days taken by them to complete a work in 18 days. If efficiency of Rahul is 12.5% less than Ritu, then find the time taken by all the three to together to complete the work.

- (a) 10 days
- (b) 12 days
- (c) 9.5 days
- (d) 7 days
- (e) 5.5 days

**Q54.** A man invested Rs. X and Rs. 2X at 15% simple interest and at 8% compound interest (compounding annually) for two years respectively. If difference between simple interest and compound interest received after two years is Rs.820, then find the value of X.

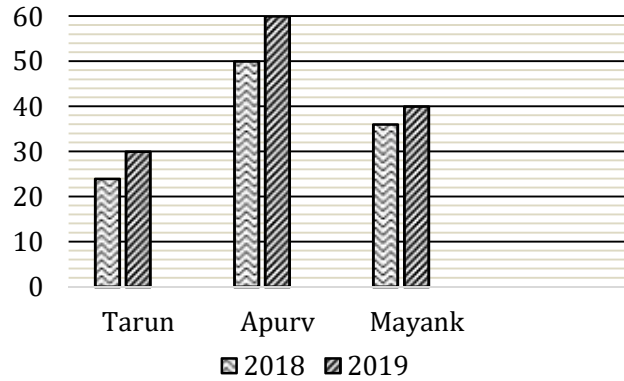
- (a) Rs.25000
- (b) Rs.30600
- (c) Rs.28600
- (d) Rs.22200
- (e) Rs.26200

**Q55.** A annually saves 15% and 20% of his income in 2017 and 2018 respectively. If A annually saves Rs. 45000 in 2017, then find the amount saved by A in 2018.

- (a) 40000 Rs.
- (b) 36000 Rs.
- (c) 60000 Rs.
- (d) Can't determine
- (e) 48000 Rs.

**Direction (56 – 60):** The bar graph given below shows the amount (in'000) of tax paid by three

different people. Read the data carefully and answer the questions.



**Q56.** If Apurv paid income tax and GST in 2019 in the ratio of 7 : 3 respectively, then find the sum of income tax paid by Apurv in 2019 and total tax (in Rs.) paid by Tarun in 2018 (Apurv paid only income tax and GST)?

- (a) 72000
- (b) 56000
- (c) 66000
- (d) 64000
- (e) 60000

**Q57.** Total taxed paid by Tarun in both years is what percent (approx.) more or less than total taxed paid by Mayank in both years?

- (a) 35%
- (b) 33%
- (c) 25%
- (d) 27%
- (e) 29%

**Q58.** Find the difference between total tax paid by Apurv in both years and total tax paid by Mayank and Tarun in 2019?

- (a) 35000 Rs.
- (b) 20000 Rs.
- (c) 50000 Rs.
- (d) 40000 Rs.
- (e) 30000 Rs.

**Q59.** Find the ratio of total tax paid by Tarun and Mayank in 2018 to total tax paid by Apurv in 2018?

- (a) 6 : 7
- (b) 5 : 4
- (c) 6 : 5
- (d) 3 : 4
- (e) 5 : 8

**Q60.** Mayank paid  $\frac{1}{4}$ th of his income as tax in 2018 and his income increased by 25% in 2020 over the 2018, while the ratio of tax paid by Mayank in 2018 to that of in 2020 is 9 : 10. If Mayank spends  $\frac{1}{6}$ th and 25% of his remaining income on rent in 2018 & 2020 respectively, while remaining he saved. Find the difference between saving of Mayank in both years?

- (a) 7500 Rs.
- (b) 15000 Rs.
- (c) 12500 Rs.
- (d) 17500 Rs.
- (e) 10000 Rs.

**Directions (61-65):** Read the following table carefully and answer the questions given below. Table given below shows the total number of registered votes in two (A & B) blocks and total number of valid votes these in two blocks in two (2012 & 2015) different years.

**Note:** Number of votes registered in any year = Number of valid votes + Number of invalid votes casted.

Year	Registered votes in block A	Registered votes in block B	Valid votes in block A	Valid votes in block B
2012	750	1200	200	1000
2015	900	1300	720	1000

**Q61.** Out of the total invalid votes of block A in 2012, the ratio of male votes to female votes was 6:5 respectively. Find the difference between the total female invalid votes of block A in 2012 and the total invalid votes in block B 2015.

- (a) 25
- (b) 45
- (c) 60
- (d) 50
- (e) 40

**Q62.** Total invalid votes of block A and B together in 2015 is how much percent more or less than the total valid votes in both the blocks in 2012?

- (a) 60%
- (b) 40%
- (c) 25%
- (d) 75%
- (e) 20%

**Q63.** If the invalid votes in block B in 2012 were again allowed for a recast and only 25% were valid from them, then find the total number of valid votes in block B in 2012 after recasting.

- (a) 1405
- (b) 1260
- (c) 1075
- (d) 1190
- (e) 1050

**Q64.** Find the difference between average number of invalid votes of both blocks in 2012 and average number of invalid of both blocks votes in 2015.

- (a) 135
- (b) 106
- (c) 115
- (d) 129
- (e) 125

**Q65.** Find the ratio of total valid votes of block A in 2012 to total votes registered of block B in 2015.

- (a) 1 :11
- (b) 2:13
- (c) 10: 17
- (d) 12 : 11
- (e) 9:7

**Direction (66-70):** Study the following information carefully and answer the questions given below:

Five persons are living on different floors of five storey building. Ground floor is numbered as 1<sup>st</sup> floor and just above the 1<sup>st</sup> floor is numbered as 2<sup>nd</sup> floor and so on till the topmost floor is numbered as 5<sup>th</sup> floor. Each of them uses different raw materials in their cloths.

G lives three floors above the one who uses Fibres. No one lives between H and the one who uses Fibres. D lives above H but not just above. F lives just above the one who uses leather. F lives on an odd numbered floor. The one who uses cotton lives above E. The one who uses wool lives above the floor of the one who uses Silk but not just above.

**Q66.** How many persons live between G and the one who uses Wool?

- (a) None
- (b) Three
- (c) Two
- (d) One
- (e) Can't be determined

**Q67.** Who lives on the bottom most floor?

- (a) D
- (b) F

- (c) None of these
- (d) E
- (e) H

**Q68.** Which of the following is correct match?

- (a) G-silk
- (b) F-cotton
- (c) E-fibres
- (d) D-leather
- (e) H-wool

**Q69.** How many persons live above H?

- (a) Two
- (b) Four
- (c) One
- (d) Three
- (e) Can't be determined

**Q70.** The number of persons live above E is same as the number of persons live below \_\_\_\_.

- (a) F
- (b) D
- (c) The one who uses cotton
- (d) The one who uses silk
- (e) Both F and the one who uses cotton

**Directions (71-73):** In each question below some statements are given followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts. Give answer-

**Q71. Statements:** Some Hero are Film. Some Film are Star. All Star are Actor.

**Conclusions: I.** Some Actor are Film.

**II.** Some Hero are not Star.





(e) H

**Direction (79-81):** Study the following information carefully and answer the related questions.

There are nine members i.e., H, R, D, W, K, T, F, X and A live in a family. F is mother of R who is the only son of X. H is sister-in-law of A who is mother of both K and T. H is married to D who is parent of W. K is only grandson of X. Neither W nor X has any sibling. W is the niece of R.

**Q79.** How is F related to T?

- (a) Mother
- (b) Aunt
- (c) Daughter-in-law
- (d) Grandmother
- (e) None of the above

**Q80.** Who is the mother-in-law of D?

- (a) A
- (b) F
- (c) T
- (d) X
- (e) None of the above

**Q81.** How is H related to T?

- (a) Maternal Aunt
- (b) Paternal Aunt
- (c) Sister-in-law
- (d) Niece
- (e) None of the above

**Direction (82-85):** Study the following information carefully and answer the questions given below:

Nine persons are going to attend an event one after another. At most two persons attend event before G. Three persons attend event between C

and G. Two persons attend event between C and B. One person attends event between B and K who attends event after B. F attend event just before L. There are as many persons attend event before L as after H. E attend event exactly between B and K. D attend event before E.

**Q82.** How many persons attend event after K?

- (a) Four
- (b) Three
- (c) Five
- (d) Six
- (e) More than six

**Q83.** The number of persons attend event between G and F is same as the number of persons attend event between \_\_\_\_ and \_\_\_\_.

- (a) L, B
- (b) H, D
- (c) E, L
- (d) C, B
- (e) H, G

**Q84.** How many persons attend event between D and the one who attend just before K?

- (a) Three
- (b) Four
- (c) Five
- (d) One
- (e) None of these

**Q85.** The number of persons attend event between K and G is half than the number of persons attend event after \_\_\_\_.

- (a) B
- (b) E
- (c) H
- (d) L
- (e) F

**Q86.** Find the odd one out?

- (a) VYT
- (b) DGB
- (c) MPK
- (d) HKG
- (e) TWR

**Direction (87-89):** Study the following information carefully and answer the questions given below:

A starts from point D in east direction and walks 22m to reach point L. He takes his left turn and walks 10m and reach at point K. Now he takes his right and walks 30m to reach at point H. After that he takes his left and walks 15m to reach at point M. B start walking in east direction from point M and walks 45m to reach at point E. He takes his right turn and walks 22m to reach at point G. Now he takes his left and walks 10m to reach at point F. Finally, B walks 10m right from point F to reach at point N.

**Q87.** What is the difference between distance covered by A and B?

- (a) 15m
- (b) 20m
- (c) 10m
- (d) 25m
- (e) 30m

**Q88.** In which direction is point F with respect to point L?

- (a) North-east
- (b) East
- (c) North
- (d) South-west
- (e) None of these

**Q89.** If point X is 7m south of point D then what is the shortest distance between point X and point N?

- (a) 112m
- (b) 118m
- (c) 106m
- (d) 107m
- (e) 110m

**Q90.** In the word 'CHAIRMAN', how many pairs of the letters have the same number of letters between them (both forward and backward direction) in the word as in the alphabet?

- (a) Four
- (b) Two
- (c) One
- (d) Three
- (e) More than four

**Direction (91-95):** Study the given information carefully and answer the related questions.

Six persons sit around a circular table facing towards the centre. All of them have different number of flowers viz. 29, 14, 36, 43, 51 and 47. One person sits between M and R who have 14 flowers. Two persons sit between the one who have 29 flowers and M. S sits immediate left of A who doesn't sit adjacent to the one who have 29 flowers. A doesn't have 29 flowers. S have more flowers than M and difference between the number of flowers of both of them is 15. O neither have 29 flowers nor 43 flowers. H is one of the persons.

**Q91.** Who among the following have 29 flowers?

- (a) M

- (b) H
- (c) S
- (d) A
- (e) None of these

**Q92.** How many persons sit between the one who have 43 flowers and H?

- (a) One
- (b) Three
- (c) Two
- (d) Either two or one
- (e) Either three or one

**Q93.** Which of the following combination is correct?

- (a) S - 36
- (b) A- 47
- (c) H- 29
- (d) M- 43
- (e) All are correct

**Q94.** Who among the following sits just right of the one who have 36 flowers?

- (a) O
- (b) H
- (c) S
- (d) R
- (e) None of these

**Q95.** Who among the following face M?

- (a) The one who have 51 flowers
- (b) A
- (c) H
- (d) The one who have 47 flowers
- (e) None of these

**Q96.** If we form a four-letter meaningful word by using the 2<sup>nd</sup>, 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> letter from the left end of the word 'HOPEFUL', then which of the

following will be the 2<sup>nd</sup> letter of the meaningful word thus formed. If more than one meaningful word is formed mark Z as your answer. If no meaningful word is formed, mark X as your answer?

- (a) Z
- (b) O
- (c) L
- (d) F
- (e) X

**Direction (97-100):** In the following questions assuming the given statement to be true, find which of the conclusion(s) among given conclusions is/are definitely true and then give your answers accordingly.

**Q97. Statements:**  $A > M < X < V$ ;  $D \leq L = M$ ;  $D > S$

**Conclusions:** I.  $A > S$       II.  $A > V$

- (a) Only I is true.
- (b) Only II is true.
- (c) Either I or II is true.
- (d) Neither I nor II is true.
- (e) Both I and II are true.

**Q98. Statements:**  $M > A \geq P > U$ ;  $E < R > U$ ;  $E \geq L > W$

**Conclusions:** I.  $M > L$       II.  $W \leq A$

- (a) Only I is true.
- (b) Only II is true.
- (c) Either I or II is true.
- (d) Neither I nor II is true.
- (e) Both I and II are true.

**Q99. Statements:**  $Q \geq W > X > Z$ ;  $E > Z$ ;  $E > C$

**Conclusions:** I.  $C < Q$       II.  $E \leq W$

- (a) Only I is true.
- (b) Only II is true.
- (c) Either I or II is true.
- (d) Neither I nor II is true.
- (e) Both I and II are true.

**Q100. Statements:**  $L > W < U < B$ ;  $W \geq X > P$ ;  $P > T \geq K$

**Conclusions:** I.  $L > T$       II.  $K < U$

- (a) Only I is true.
- (b) Only II is true.
- (c) Either I or II is true.
- (d) Neither I nor II is true.
- (e) Both I and II are true.

## Solutions

**S1. Ans.(e)**

**Sol.** To validate the correct answer, refer to the first paragraph which mentions, "Tourism in India accounts for 6.8% of the GDP, and is the third largest foreign exchange earner for the country with USD 18.13 Billion."

**S2. Ans.(d)**

**Sol.** The correct choice is option (d) which can be inferred from the second paragraph which mentions, "Ministry of Tourism specifies that any form of tourism that showcases the rural life, art, culture and heritage at rural locations, benefits the local community economically and socially, and enables interaction between the tourists and the locals can be termed as rural tourism."

**S3. Ans.(a)**

**Sol.** The correct choice is option (a) which can be inferred from the second paragraph which mentions, "This will not only preserve the culture and heritage of the country, but will also generate employment in the villages since it can be leveraged to provide skill development in tourism related job roles such as that of guide, driver, cook, housekeeping and hospitality to the tourists."

**S4. Ans.(e)**

**Sol.** The correct choice is option (e) which can be inferred from the first paragraph which mentions, "The geographical diversity of India makes it a

unique spot for harnessing rural tourism which can include tourist sites like desert, mountains, plains, plateaus, islands and coasts in different regions. India showcases a variety of cultural patterns having different lifestyles, practices, art and craft, and festivals. These can be incorporated and leveraged in the form of rural tourism."

**S5. Ans.(b)**

**Sol.** Only option (b) is incorrect as per the information given in the passage.

For option (a), refer to the lines of second paragraph, which mention, "Rural tourism may include multiple facets such as farm tourism, cultural tourism, nature tourism, adventure tourism, and eco-tourism."

For option (b), refer to the lines of second paragraph, which mention, "The country has seen successful rural tourism models in states such as Kerala's backwater, Karnataka's forest, and Tamil Nadu's temple."

For option (c), refer to the lines of first paragraph, which mention, "A tourist's paradise, India is a magnum of diverse geography and cultures, offering 30 World Heritage sites, 25 biogeographical zones and attractive beaches"

For option (d), refer to the lines of first paragraph, which mention, "With 69% population living in rural India, and almost 6.5 million village units spread across the country, India plays a **vital** role in harnessing rural tourism."

**S6. Ans.(c)**

**Sol.** 'Shift' is a synonym of 'move'  
convey means make (an idea, impression, or feeling) known or understandable  
crawl means move forward on the hands and knees or by dragging the body close to the ground.  
shift means change the emphasis, direction, or focus of.  
mutter means say something in a low or barely audible voice, especially in dissatisfaction or irritation.

**S7. Ans.(b)**

**Sol.** The most suitable word for the given blank is 'leveraged'.  
amplified means make (something) more marked or intense.  
leveraged means use (something) to maximum advantage.  
fortified means provided with defensive works as protection against attack.  
invoked means all on (a deity or spirit) in prayer, as a witness, or for inspiration.

**S8. Ans.(d)**

**Sol.** 'Trivial' is an antonym of 'vital'  
retreat means withdraw from enemy forces as a result of their superior power or after a defeat.  
timid means showing a lack of courage or confidence; easily frightened.

precise means marked by exactness and accuracy of expression or detail.

trivial means of little value or importance.

**S9. Ans.(a)**

**Sol.** 'Detrimental' is a synonym of 'harmful'.  
detrimental means tending to cause harm.  
ameliorate means make (something bad or unsatisfactory) better.  
fugitive means a person who has escaped from captivity or is in hiding.  
consorted means agree or be in harmony with.

**S10. Ans.(e)**

**Sol.** Going through the given sentences, it is clear that the passage is about Charles Darwin's book on evolution. Here, only statement (C) can be the first statement as it introduces the premise of the paragraph by clearly mentioning the name of the book i.e., "On the Origin of Species". Statement (E) should be the next in line as it emphasizes the importance of the book and its reason is explained in statement (A), thus making it the third statement in this rearrangement. Statement (D) should be the fourth statement as it gives a better understanding of the contents of the mentioned book. The next sentence should be the statement (F) where more data on the book is given. Note, the phrase "But surprisingly" makes it clear that the given sentence (F) cannot be placed prior to this arrangement. Now, the only sentence that is left is sentence (B) and it will obviously take the last position in the sequence as it also concludes its previous statement i.e., statement (F). Hence, the correct sequence of sentences will be CEADFB.

**S11. Ans.(d)**

**Sol.** Going through the given sentences, it is clear that the passage is about Charles Darwin's book on evolution. Here, only statement (C) can be the first statement as it introduces the premise of the paragraph by clearly mentioning the name of the book i.e., "On the Origin of Species". Statement (E) should be the next in line as it emphasizes the importance of the book and its reason is explained in statement (A), thus making it the third statement in this rearrangement. Statement (D) should be the fourth statement as it gives a better understanding of the contents of the mentioned book. The next sentence should be the statement (F) where more data on the book is given. Note, the phrase "But surprisingly" makes it clear that the given sentence (F) cannot be placed prior to this arrangement. Now, the only sentence that is left is sentence (B) and it will obviously take the last position in the sequence as it also concludes its previous statement i.e., statement (F). Hence, the correct sequence of sentences will be CEADFB

**S12. Ans.(a)**

**Sol.** Going through the given sentences, it is clear that the passage is about Charles Darwin's book on evolution. Here, only statement (C) can be the first statement as it introduces the premise of the paragraph by clearly mentioning the name of the book i.e., "On the Origin of Species". Statement (E) should be the next in line as it emphasizes the importance of the book and its reason is explained in statement (A), thus making it the third statement in this rearrangement. Statement (D) should be the

fourth statement as it gives a better understanding of the contents of the mentioned book. The next sentence should be the statement (F) where more data on the book is given. Note, the phrase "But surprisingly" makes it clear that the given sentence (F) cannot be placed prior to this arrangement. Now, the only sentence that is left is sentence (B) and it will obviously take the last position in the sequence as it also concludes its previous statement i.e., statement (F). Hence, the correct sequence of sentences will be CEADFB.

**S13. Ans.(c)**

**Sol.** Going through the given sentences, it is clear that the passage is about Charles Darwin's book on evolution. Here, only statement (C) can be the first statement as it introduces the premise of the paragraph by clearly mentioning the name of the book i.e., "On the Origin of Species". Statement (E) should be the next in line as it emphasizes the importance of the book and its reason is explained in statement (A), thus making it the third statement in this rearrangement. Statement (D) should be the fourth statement as it gives a better understanding of the contents of the mentioned book. The next sentence should be the statement (F) where more data on the book is given. Note, the phrase "But surprisingly" makes it clear that the given sentence (F) cannot be placed prior to this arrangement. Now, the only sentence that is left is sentence (B) and it will obviously take the last position in the sequence as it also concludes its previous statement i.e., statement (F). Hence, the correct sequence of sentences will be CEADFB.

**S14. Ans.(d)**

**Sol.** The correct sequence of the sentences will be CEADFB.

**Sol.** Going through the given sentences, it is clear that the passage is about Charles Darwin's book on evolution. Here, only statement (C) can be the first statement as it introduces the premise of the paragraph by clearly mentioning the name of the book i.e., "On the Origin of Species". Statement (E) should be the next in line as it emphasizes the importance of the book and its reason is explained in statement (A), thus making it the third statement in this rearrangement. Statement (D) should be the fourth statement as it gives a better understanding of the contents of the mentioned book. The next sentence should be the statement (F) where more data on the book is given. Note, the phrase "But surprisingly" makes it clear that the given sentence (F) cannot be placed prior to this arrangement. Now, the only sentence that is left is sentence (B) and it will obviously take the last position in the sequence as it also concludes its previous statement i.e., statement (F).

**S15. Ans.(d)**

**Sol.** The sentence given by option (d) gives the only grammatically and contextually correct sentence of all the given sentences.

Option (a): The correction to be made here is replacing "morality" with "moral" which is the adjective form of the word, as the word is intended for describing the noun "character", and an adjective is thus the appropriate substitution.

Option (b): "Were held" should be replaced with "held" as only the latter establishes "Greek

scholars and poets" as a subject, doing which helps avoid a conflict of subject and narrative, and gives the sentence proper meaning.

Option (c): "Leading for" should be replaced with "leading to" as the latter gives the more usual and appropriate collocation. "Leading to" connects the two clauses as a sentences with proper meaning.

**S16. Ans.(b)**

**Sol.** The sentence given by option (d) gives the only grammatically and contextually correct sentence of all the given sentences.

Option (a): Replacing "while" with "unless" or "until" might make the sentence correct, as "while" in itself is not the conjunction appropriate for situations of contrast.

Option (c): The sentence proposes a viable course of action in the future, and not a suggestion for a viable course of action in the past. "To have prevented" something, the latter of the two would be required. One relevant correction would be to change "to have prevented" with "to prevent" for contextual coherency.

Option (d): Replace "lead" with "led" to make the sentence contextually and grammatically correct. The context states something that has happened due to an action been having taken. "Led" is the past form "lead" which is the tense required by the context.

**S17. Ans.(c)**

**Sol.** The sentence given by option (c) gives the only grammatically and contextually correct sentence of all the given sentences.

Option (a): The sentence shows subject verb disagreement. As the noun for the verb "have" is



"expansion", which is singular, the verb should be singular to. Replacing "have" with "has" is one way to correct the sentence.

Option (b): Change "mark" to "marked" as the sentence is in past tense and the verb should reflect the same tense for grammatical correctness.

Option (d): As the word "all" is associated with the noun, the noun must be plural. "Functional role concept" should be changed to "functional role concepts" to make the sentence correct

**S18. Ans.(e)**

**Sol.** No grammatical errors exist in the above given sentences. Thus, option (e) is the subsequent answer.

**S19. Ans.(d)**

**Sol.** The sentence given by option (d) gives the only grammatically and contextually correct sentence of all the given sentences.

Option (a): The conjunction "or" should be replaced with "and" as the second clause adds to the first one and does not give an alternative, as can be seen by the phrase "as well" in the second clause.

Option (b): Changing "from" to "than" is required for comparative statements to make the sentence correct. Thus the sentence in its original form is incorrect.

Option (c): The collocation for "cut" is "through" in this case as the context requires the phrase "cut through" for contextual coherency.

"To cut through" is defined as "to get quickly and directly through or past".

**S20. Ans.(b)**

**Sol.** The rearrangement needed to make the sentence grammatically meaningful is 'BCAD'. Thus, the sentence will be, "Replacing the office's outdated computer systems with new technology would allow the workers to get a lot more done"

**S21. Ans.(c)**

**Sol.** The rearrangement needed to make the sentence meaningful is 'ABDC'. Thus, the sentence will be, "The allure of the fresh herbs caused the chef to spend more money than he intended at the market"

**S22. Ans.(a)**

**Sol.** The rearrangement needed to make the sentence meaningful is 'DCBA'. Thus, the sentence will be, "There is a cluster of industrial buildings on the outskirts of our small town, but we tend to ignore them since they ruin the horizon."

**S23. Ans.(b)**

**Sol.** The interchange needed to make a grammatically correct and meaningful sentence is between the words 'clippings and 'collection'. The sentence will be, "My art project required me to assemble a collection of magazine clippings."

**S24. Ans.(b)**

**Sol.** The interchange needed to make a grammatically correct and meaningful sentence is between the words 'loyal' and 'stand'. The sentence will be "You will never be able to find better company than a dog, as a dog will always

stand by you and be loyal to you if you treat him right.”

**S25. Ans.(c)**

**Sol.** The interchanges needed to make a grammatically correct and meaningful sentence are between the words ‘jumped’ and ‘filled’ and ‘equipment’ and ‘mayhem’. The sentence will be, “The playground was filled with mayhem as fifty students jumped and climbed all over the equipment.”

**S26. Ans.(b)**

**Sol.** The most suitable word for the blank is ‘valiant’. Valiant is an adjective which means very brave or bravely determined, especially when things are difficult or the situation gives no cause for hope.

Valiant means possessing or showing courage or determination.

Illustrious means well known, respected, and admired for past achievements.

Refrain means stop oneself from doing something.

Reached means to arrive at a place.

Redundant means not or no longer needed or useful; superfluous.

**S27. Ans.(d)**

**Sol.** The most suitable word for the blank is ‘fragile’. Fragile is an adjective which means (of a person) weak or in poor health, physically or mentally.

Cripple means cause severe and disabling damage to; deprive of the ability to function normally.

Reliant means dependent on someone or something.

Splendid means magnificent; very impressive  
Fragile means (of a person) not strong or sturdy; delicate and vulnerable.

Elevated means (of a level or amount) higher or greater than normal.

**S28. Ans.(a)**

**Sol.** The correct replacement is “**I had studied**”. The sentence follows the structure of third conditional. With the third conditional we talk about the past. We talk about a condition in the past that did not happen. So, the condition was not true, and that particular condition can never be true because it is finished.

We use the **Past Perfect tense** to talk about the **impossible past condition**. We use **would have + past participle** to talk about the **impossible past result**. The important thing about the third conditional is that both the condition and result are impossible now.

**S29. Ans.(d)**

**Sol.** The correct replacement is “desire to return”. The word back is implied by the word return, so basically it is not needed to use back. ‘back’ is redundant in the given sentence.

**S30. Ans.(e)**

**Sol.** The highlighted part of the sentence is grammatically correct. Hence no replacement is required.

**S31. Ans.(c)**

**Sol. I.**  $x^2 - 15x + 56 = 0$   
 $x^2 - 7x - 8x + 56 = 0$   
 $x(x - 7) - 8(x - 7) = 0$   
 $(x - 7)(x - 8) = 0$   
 $x = 7, 8$

**II.**  $y^2 - 8y + 15 = 0$   
 $y^2 - 5y - 3y + 15 = 0$

$$y(y - 5) - 3(y - 5) = 0$$

$$(y - 5)(y - 3) = 0$$

$$y = 5, 3$$

So,  $x > y$ .

**S32. Ans.(b)**

**Sol. I.**  $x^2 + 12x + 35 = 0$   
 $x^2 + 5x + 7x + 35 = 0$   
 $x(x + 5) + 7(x + 5) = 0$   
 $(x + 5)(x + 7) = 0$   
 $x = -5, -7$

**II.**  $y^2 + 7y + 10 = 0$   
 $y^2 + 2y + 5y + 10 = 0$   
 $y(y + 2) + 5(y + 2) = 0$   
 $(y + 2)(y + 5) = 0$   
 $y = -2, -5$   
 So,  $x \leq y$ .

**S33. Ans.(a)**

**Sol. I.**  $x^2 - 3x - 40 = 0$   
 $x^2 - 8x + 5x - 40 = 0$   
 $x(x - 8) + 5(x - 8) = 0$   
 $(x - 8)(x + 5) = 0$   
 $x = 8, -5$

**II.**  $y^2 + 11y + 30 = 0$   
 $y^2 + 6y + 5y + 30 = 0$   
 $y(y + 6) + 5(y + 6) = 0$   
 $(y + 6)(y + 5) = 0$   
 $y = -6, -5$   
 $x \geq y$

**S34. Ans.(e)**

**Sol. I.**  $2x^2 + 14x - 16 = 0$   
 $2x^2 + 16x - 2x - 16 = 0$   
 $2x(x + 8) - 2(x + 8) = 0$   
 $(2x - 2)(x + 8) = 0$   
 $x = -8, 1$   
**II.**  $y^2 - y - 12 = 0$

$$y^2 - 4y + 3y - 12 = 0$$

$$y(y - 4) + 3(y - 4) = 0$$

$$(y + 3)(y - 4) = 0$$

$$y = -3, 4$$

No relation can be established between  $x$  and  $y$

**S35. Ans.(a)**

**Sol. I.**  $2x^2 - x - 3 = 0$   
 $2x^2 + 2x - 3x - 3 = 0$   
 $2x(x + 1) - 3(x + 1) = 0$   
 $(x + 1)(2x - 3) = 0$   
 $x = \frac{3}{2}, -1$

**II.**  $2y^2 - 6y + 4 = 0$   
 $2y^2 - 2y - 4y + 4 = 0$   
 $2y(y - 1) - 4(y - 1) = 0$   
 $(y - 1)(2y - 4) = 0$   
 $y = 1, 2$

No relation can be established between  $x$  and  $y$ .

**Sol. (36 -40):**

Let total student who are in only A, only B and only C be  $2a$ ,  $3a$  &  $5a$  respectively  
 And total student who are in all three categories  
 $= \frac{5a}{2}$

Let total students who are in only B & C but not A =  $b$

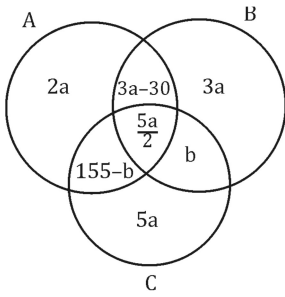
So, total students who are in only A & C but not B =  $155 - b$

And, Total number of students who are in A & B but not C =  $3a - 30$

$$10a + 3a - 30 + \frac{5a}{2} + 155 = 900$$

$$a = 50$$

but we can't solve value of  $b$



**S36. Ans.(b)**

**Sol.** we can't solve value of b  
So, can't determined

**S37. Ans.(b)**

**Sol.** we can't solve value of b  
So, can't determine the ratio

**S38. Ans.(b)**

**Sol.** Required number =  $50 \times 2 \times \frac{70}{100} = 70$

**S39. Ans.(d)**

**Sol.** Required number =  $900 - 50 \times \frac{5}{2} = 775$

**S40. Ans.(b)**

**Sol.** Required number =  $50 \times (2 + 3 + 5) = 500$

**S41. Ans.(b)**

**Sol.** Pattern of the series -

$$\begin{array}{cccccc} 2 & 6 & 12 & 20 & 30 & ?=42 \\ +4 & +6 & +8 & +10 & +12 & \\ +2 & +2 & +2 & +2 & & \end{array}$$

**S42. Ans.(b)**

**Sol.** Pattern of the series-

$$24 + 5^2 = 49$$

$$? = 49 + 7^2 = 98$$

$$98 + 11^2 = 219$$

$$219 + 13^2 = 388$$

$$388 + 17^2 = 677$$

**S43. Ans.(c)**

**Sol.** Pattern of the series-

$$\begin{array}{cccccc} 48 & 55 & 76 & ?=111 & 160 & 223 \\ +7 & +21 & +35 & +49 & +63 & \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ (7 \times 1) & (7 \times 3) & (7 \times 5) & (7 \times 7) & (7 \times 9) & \end{array}$$

**S44. Ans.(b)**

**Sol.** Pattern of series -

$$15 + 1.5 = 16.5$$

$$16.5 + 3 = 19.5$$

$$19.5 + 4.5 = 24$$

$$? = 24 + 6 = 30$$

$$30 + 7.5 = 37.5$$

**S45. Ans.(b)**

**Sol.** Pattern of series -

$$2 \times 3 = 6$$

$$6 \times 5 = 30$$

$$30 \times 7 = 210$$

$$? = 210 \times 9 = 1890$$

$$1890 \times 11 = 20790$$

**S46. Ans.(c)**

**Sol.** Let present age of C = x years

So, present age of A = (x + 12) years

And Present age of B = (x + 3) years

ATQ -

$$\frac{(x+12)}{(x+3)} = \frac{6}{5}$$

$$5x + 60 = 6x + 18$$

$$x = 42$$

$$\text{Required sum} = 42 + (42 + 3) + 10 \times 2 =$$

$$107 \text{ years}$$

**S47. Ans.(e)**

**Sol.** ATQ -

$$\frac{X \times 12}{8 \times (X+900)} = \frac{2400}{(5800-2400)}$$

$$\frac{3X}{2(X+900)} = \frac{12}{17}$$

$$17X = 8X + 7200$$

$$X = 800$$

**S48. Ans.(b)**

**Sol.** Let total initial quantity of milk in vessel be  $4x$

So, total initial quantity of water in vessel =  $4x$

$$\times \frac{25}{100} = x$$

ATQ –

$$\frac{4x - 10 \times \frac{4x}{5x} + 2}{x - 10 \times \frac{x}{5x}} = \frac{500}{100}$$

$$x = 27$$

initial quantity of milk in the vessel =  $27$

$$\times 4 = 108$$

### S49. Ans.(c)

**Sol.** Let cost price of article A =  $5x$

So, Marked price of article A =  $5x \times \frac{160}{100} = 8x$

And cost price of article B =  $5y$

So, Marked price of article B =  $5y \times \frac{160}{100} = 8y$

ATQ –

$$5x + 5y = 350$$

$$x + y = 70 \text{ ----- (i)}$$

$$\text{And } 8y - 8x = 80$$

$$y - x = 8$$

$$y = 39$$

$$x = 31$$

So, cost price of article A =  $31 \times 5 = 155$  Rs.

### S50. Ans.(d)

**Sol.** Let length and breadth of the rectangle be  $l$  cm &  $b$  cm respectively.

$$\text{Give, } 2(l+b) = 108$$

$$40 + b = 54$$

$$b = 14$$

But we can't determine the number of semicircles can be drawn inside the rectangle

### S51. Ans.(c)

**Sol.** Let speed of boat in still water and speed of stream be  $x$  km/hr and  $y$  km/hr respectively

$$\frac{x+y}{x-y} = \frac{5}{3}$$

$$x = 4y$$

Given value are in approximate, so we can leave meters and seconds here

ATQ –

$$\frac{60}{5y} + \frac{60}{3y} = 16$$

$$\frac{12}{y} + \frac{20}{y} = 16$$

$$y = 2$$

$$\text{So, } x = 8$$

$$\text{Required time} = \frac{37}{6} = 6 \text{ hours}$$

### S52. Ans.(b)

**Sol.** Time taken by a train to cover distance between A & B and distance between B & C is same

So, time taken by train to cover distance

$$\text{between A \& B} = \frac{400}{40} = 10 \text{ hours}$$

Speed of train to cover distance between B & C

$$= \frac{375}{10} = 37.50 \text{ km/hr}$$

$$\text{Average speed} = \frac{775}{20} = 38.75 \text{ km/hr}$$

$$\text{Required difference} = 38.75 - 37.50 = 1.25 \text{ km/hr}$$

### S53. Ans.(b)

**Sol.** Let efficiency of Rakesh be  $5x$  units/day

$$\text{Efficiency of Ritu} = 5x \times \frac{160}{100} = 8x \text{ units/day}$$

$$\text{Efficiency of Rahul} = 8x \times \frac{7}{8} = 7x \text{ units/day}$$

Ratio of time taken by Rakesh to Ritu to complete work be  $8 : 5$

So,

$$8 - 3 = 18$$

$$1 = 6$$

$$\text{Total work} = 8 \times 6 \times 5x = 240x \text{ units}$$

$$\text{Req. days} = \frac{240x}{8x+5x+7x} = 12 \text{ days}$$

### S54. Ans.(b)

**Sol.** ATQ,

$$[2X(1.08)^2 - 2X] - \frac{X \times 15 \times 2}{100} = 820$$

$$[2.3328X - 2X] - \frac{3X}{10} = 820$$

$$\Rightarrow \frac{3328X}{10000} - \frac{3X}{10} = 820$$

$$\Rightarrow \frac{328X}{10000} = 820$$

$$X = 25000 \text{ Rs.}$$

**S55. Ans.(d)**

We have no information about income of A in 2018 or any relation between income of A in 2017 & 2018 so we can't determine the annual saving of A in 2018

**S56. Ans.(c)**

**Sol.** Required sum =  $60000 \times \frac{7}{10} + 24000 = 66000$

**S57. Ans.(e)**

**Sol.** Required percentage =  $\frac{(40+36)-(24+30)}{(40+36)} \times 100 = 28.94 \approx 29\%$

**S58. Ans.(d)**

**Sol.** Required difference =  $((50 + 60) - (30 + 40)) \times 1000 = 40000 \text{ Rs.}$

**S59. Ans.(c)**

**Sol.** Required ratio =  $(24 + 36) : 50 = 6 : 5$

**S60. Ans.(b)**

**Sol.** Total income of Mayank in 2018 =  $36000 \times \frac{4}{1} = 144000 \text{ Rs.}$

Income of Mayank in 2020 =  $144000 \times \frac{125}{100} = 180000 \text{ Rs.}$

Total tax paid by Mayank in 2020 =  $36000 \times \frac{10}{9} = 40000 \text{ Rs.}$

Saving of Mayank in 2018 =  $(144000 - 36000) \times \frac{5}{6} = 90000 \text{ Rs.}$

Saving of Mayank in 2020 =  $(180000 - 40000) \times \frac{3}{4} = 105000 \text{ Rs.}$

Required difference =  $105000 - 90000 = 15000$

**S61. Ans.(d)**

**Sol.** Invalid votes of block A in 2012 =  $750 - 200 = 550$

Invalid votes of block B in 2015 =  $1300 - 1000 = 300$

Total female invalid votes =  $550 \times \frac{5}{11} = 250$

Required difference =  $300 - 250 = 50$

**S62. Ans.(b)**

**Sol.** Invalid votes of block A in 2015 =  $900 - 720 = 180$

Invalid votes of block B in 2015 =  $1300 - 1000 = 300$

Required percentage =  $\frac{(200+1000)-(180+300)}{200+1000} \times 100 = 60\%$

**S63. Ans.(e)**

**Sol.** Invalid votes of block B in 2012 =  $1200 - 1000 = 200$

Total number of valid votes in block B in 2012 after recasting =  $200 \times \frac{25}{100} + 1000 = 1050$

**S64. Ans.(b)**

**Sol.** Invalid votes of block A in 2012 =  $750 - 200 = 550$

Invalid votes of block B in 2012 =  $1200 - 1000 = 200$

Invalid votes of block A in 2015 =  $900 - 720 = 180$

Invalid votes of block B in 2015 =  $1300 - 1000 = 300$

Required difference =  $\frac{550+200}{2} - \frac{180+300}{2} = 135$

**S65. Ans.(b)**

**Sol.** Required ratio =  $200 : 1300 = 2:13$

**Direction (66-70):**

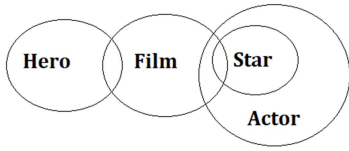
Floor	Persons	Raw Materials
5	D	Wool
4	G	Cotton
3	F	Silk
2	H	Leather
1	E	Fibres

**S66. Ans.(a)**

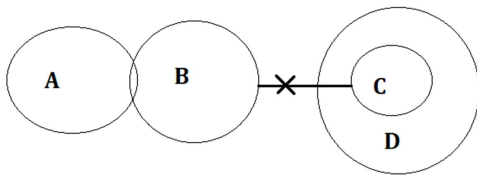
**S67. Ans.(d)**

- S68. Ans.(c)  
 S69. Ans.(d)  
 S70. Ans.(b)

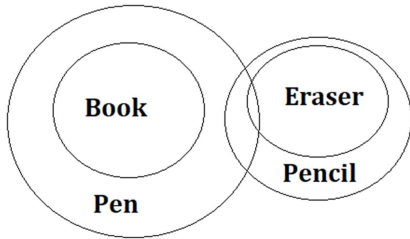
S71. Ans.(a)  
 Sol.



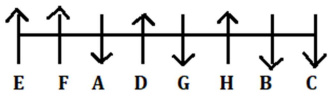
S72. Ans.(a)  
 Sol.



S73. Ans.(c)  
 Sol.

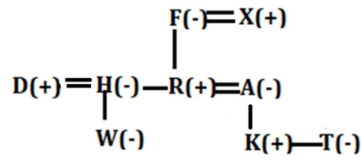


Direction (74-78):



- S74. Ans.(b)  
 S75. Ans.(d)  
 S76. Ans.(a)  
 S77. Ans.(c)  
 S78. Ans.(b)

Direction (79-81):



- S79. Ans.(d)  
 S80. Ans.(b)  
 S81. Ans.(b)

Direction (82-85):

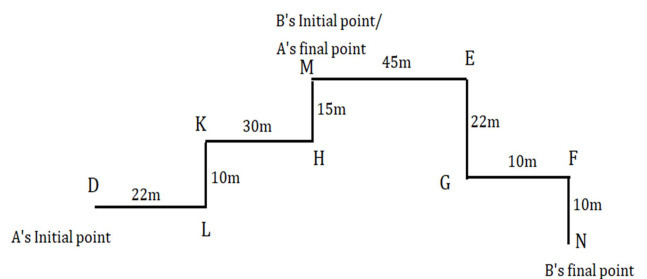
Persons
H
D
G
B
E
K
C
F
L

- S82. Ans.(b)  
 S83. Ans.(a)  
 S84. Ans.(e)  
 S85. Ans.(b)

S86. Ans.(d)

Sol. Logic – VYT ( $T+1 = V+3 = Y$ )

Direction (87-89):



S87. Ans.(c)

**Sol.** A covers 77m and B cover 87m so the difference is  $87-77 = 10m$

**S88. Ans.(a)**

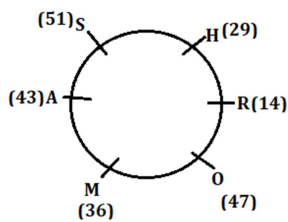
**S89. Ans.(d)**

**S90. Ans.(b)**

**Sol**



**Direction (91-95):**



**S91. Ans.(b)**

**S92. Ans.(e)**

**S93. Ans.(c)**

**S94. Ans.(a)**

**S95. Ans.(c)**

**S96. Ans.(b)**

**Sol.** Meaningful word – **FOUL**

**Direction (97-100):**

**S97. Ans.(a)**

**S98. Ans.(d)**

**S99. Ans.(d)**

**S100. Ans.(e)**



## IBPS PO Previous Year Questions Papers With Solutions -2021

**Directions (1-3):** A word has been given in each question and has been used in the sentences given below. Identify the statements where the word has been used in a contextually and grammatically correct manner. If the word has been used incorrectly in all the statements, mark (e), "None of these", as your answer.

### Q1. Fellow

(i) The Central Vigilance Commission asked all public sector banks to **fellow** time limit set by it for timely completion of disciplinary proceedings.

(ii) Company is seeking highly motivated research **fellow** to perform high-impact

(iii) Volunteers help **fellow** villagers access healthcare in conflict-affected eastern Ukraine.

- (a) only (i)
- (b) only (ii)
- (c) both (ii) and (i)
- (d) both (ii) and (iii)
- (e) none of these

### Q2. Accent

(i) There has been much discussion about celebrity's **accent** in a reality show.



(ii) Temple jewellery was mostly made from gold and silver and finished with handcrafted **accents**.

(iii) Succeeding public authorities cannot **accent** the work of their predecessors.

(a) only (ii)

(b) both (i) and (ii)

(c) both (ii) and (iii)

(d) all (i), (ii), (iii)

(e) none of these

### Q3. Wind

(i) It stated that the Officers must establish a close **wind** with laboratories for expediting the results of genomic analysis

(ii) **Wind** your arm with a bandage.

(iii) The **wind** of a university is often judged by the collective achievements of its alumni

(a) only (ii)

(b) both (i) and (ii)

(c) both (ii) and (iii)

(d) all (i), (ii), (iii)

(e) none of these

**Directions (4-13):** Read the following passage and answer the given questions based on the information provided in the passage.

With the advancement of digital technology, excessive screen time has become a grave concern. This has pushed researchers and practitioners to focus on digital well-being. Screen time during COVID-19 has further increased as a result of public health measures enforced by governments to curb the pandemic. A lack of comprehensive empirical overviews on screen time in the COVID-19 era in the present literature prompted us to conduct this review.

The present review attempts to understand the virtual social connectedness, excessive use of digital technology, its consequences and suggest strategies to maintain healthy use of digital technology. Though there are mixed consequences of prolonged screen time use and blurred understanding between healthy and unhealthy social connectedness over digital media, the suggestions for negative implications on (physical and) mental health warrant a strict need for inculcating healthy digital habits, especially knowing that digital technology is here to stay and grow with time.

The last two decades have seen a thriving future in the use of digital technology. It has accelerated human exposure to prolonged **bright** screen which is becoming a growing concern. Digital technology is essentially the use of electronic devices to store, generate or process data; it facilitates communication and virtual interactions on social media platforms using the internet. The COVID-19 pandemic has forced people to rely on digital networks as their only method of maintaining a socio-emotional connection, but it has also made it a **shallow** one. Digital technology is influencing how people use digital devices to maintain, or avoid social relations or how much time to spend on virtual social connectedness. Screen time refers to the amount of time spent and the diverse activities performed online using digital devices. For instance, screen time encompasses both, using digital devices for work purposes as well as for leisure and entertainment.

The COVID-19 pandemic came with restrictions, regulations and stay-at-home orders. Many individuals could not return to their homes,

many stuck in foreign lands and many in solitude. As a result, the usage of digital devices has increased manifold across the globe. The addiction to the digital devices has started to **run** in the genes of individuals. Irrespective of age, people are pushed to rely on digital platforms. Education, shopping, working, meeting, entertaining and socializing suddenly leaped from offline to online. Here, **digital technology came as a blessing in disguise**, enabling individuals to remain emotionally connected despite social distancing. At the same time, prolonged screen time has caused concerns related to its impact on physical and mental health. While mindful use of digital devices is linked with well-being, excessive screen time is reported to be associated with a range of negative mental health outcomes such as psychological problems, low emotional stability, and a greater risk for depression or anxiety.

**Q4.** What, according to the author, is/are the major objective(s) of conducting a review on the usage of digital technology?

- (a) To recognize the idea of virtual social togetherness
- (b) To suggest ideas for discontinuing the use of digital technology
- (c) To comprehend the suitable limit of digital technology usage
- (d) Only (a) and (c)
- (e) Both (a) and (b)

**Q5.** Why has the use of digital technology become more than a matter of concern?

- (a) Because the future of digital technology is bright for the next generation.
- (b) Because it has suffocated interpersonal relations with its wide usage.

(c) Because it has elevated human exposure to long durations spent in front of a screen.

(d) Because it has seen a decrease in virtual interactions on social media platforms.

(e) None of these

**Q6.** Which of the following statements with reference to screen time is/are correct?

(a) It refers to the amount of time spent on digital devices while online.

(b) It refers to the amount of time incurred while doing a variety of online activities carried out with the use of digital gadgets.

(c) Only time spent on leisure and entertainment activities is included in it.

(d) Only (a) and (c)

(e) Both (a) and (b)

**Q7.** Why has the usage of digital devices increased manifold across the globe?

(a) As a result of the regulations put in place to combat the COVID-19 pandemic.

(b) Because of pandemic restrictions, many people remain trapped in foreign countries.

(c) Because interaction and amusement moved from the offline to the online world.

(d) Only (a) and (b)

(e) All of these

**Q8.** Why has prolonged screen time caused concerns on physical and mental health?

(a) It has resulted in a slew of psychological issues.

(b) Individuals have become emotionally stable as a result of it.

(c) It has increased the risk of depression and anxiety.

(d) Only (a) and (c)

(e) Both (a) and (b)

**Q9.** Which of the following statements with reference to the information provided in the given passage is/are incorrect?

- (a) Researchers have turned their attention to digital well-being as a result of excessive screen time on digital gadgets.
- (b) The advancement of digital technology has seen a promising future in the recent two decades.
- (c) Concerns about the impact of excessive screen usage on physical and mental health have surfaced.
- (d) Only (a) and (b)
- (e) None of these

**Q10.** Choose the most appropriate synonym of the word '**RUN**', as highlighted in the given passage.

- (a) Coast
- (b) Slide
- (c) Flow
- (d) Swipe
- (e) Ruin

**Q11.** Choose the most appropriate antonym of the word '**BRIGHT**', as highlighted in the given passage.

- (a) Lucid
- (b) Dim
- (c) Glare
- (d) Canny
- (e) Ablaze

**Q12.** Which of the following statements best illustrates the meaning of the phrase "**digital**

**technology came as a blessing in disguise**", as expressed in the passage?

- (a) Issues have been expressed about the effects of excessive screen time on health.
- (b) The activity of entertaining and gathering shifted from offline to online.
- (c) Despite the social distance, digital technology has enabled people to stay emotionally tied.
- (d) Long periods of screen time have raised worries about physical and mental health.
- (e) All of these

**Q13.** Choose the most appropriate synonym of the word '**SHALLOW**', as highlighted in the given passage.

- (a) superficial
- (b) frivolous
- (c) trivial
- (d) Only (a) and (b)
- (e) All of these

**Directions (14-18):** In each of the questions given below a sentence is given with three words in bold. Choose the option which gives the correct sequence of these words to make the sentence grammatically and contextually correct.

**Q14.** As the **staying (A)** lifestyle continues to evolve; a **phenomenon (B)** that has been further accelerated during the pandemic, is that of '**modern (C)** at home.'

- (a) ACB
- (b) BAC
- (c) CBA
- (d) BCA
- (e) No rearrangement required

**Q15.** The death of five elephants has again **reduce (A)** the gaps in efforts to **highlighted (B)** man-animal **conflicts (C)** in the country.

- (a) ACB
- (b) BAC
- (c) CAB
- (d) BCA
- (e) No rearrangement required

**Q16.** The leap of **artificial (A)** intelligence in the **students (B)** sector has helped **education (C)** and educators.

- (a) ACB
- (b) BAC
- (c) CAB
- (d) BCA
- (e) No rearrangement required

**Q17.** The additional budget for MGNREGA was among the most **threatened (A)** awaited, as pending payments for wages have **keenly (B)** to cripple **implementation (C)** of the scheme.

- (a) ACB
- (b) BAC
- (c) CAB
- (d) BCA
- (e) No rearrangement required

**Q18.** The cyclone will briefly gain in **severe (A)** and become a **conventional (B)** cyclonic storm, but is unlikely to make a **strength (C)** landfall.

- (a) ACB
- (b) BAC
- (c) CAB
- (d) BCA
- (e) No rearrangement required

**Directions (19-23):** In the following questions six sentences are given. Further, these sentences may or may not form a contextually meaningful sequence. You have to rearrange these sentences to make a contextually meaningful paragraph. The sentence (F), which has already been highlighted, would be the LAST sentence after rearrangement. Later, answer the follow-up questions.

(A) The train initially operated on horse-drawn traffic were later replaced in 1856 by steam locomotives.

(B) The ability of Serbian Railways to transport goods and people efficiently made economic development possible.

(C) The history of rail transport in Serbia began in the mid-19th century when most of the territory was still held by the Austro-Hungarian and Ottoman Empires.

(D) Part of the line was located in Serbia passing through Bela Crkva while the rest is in Romania.

(E) The first rail line on the present-day territory of Serbia was inaugurated on 20 August 1854, between Lisava-Oravica-Bazijaš .

(F) It continued with modified business activity: engineering and technical consulting, consulting activities in the field of information technology and other information technology services etc.

**Q19.** Which of the following would be the correct order of sentences after rearrangement?

- (a) DEBACF
- (b) CDEBAF
- (c) ABCEDF
- (d) BACEDF
- (e) CEDABF

**Q20.** Which of the following would be the THIRD sentence after rearrangement?

- (a) A
- (b) B
- (c) C
- (d) D
- (e) F

**Q21.** Which of the following would be the FIRST sentence after rearrangement?

- (a) A
- (b) B
- (c) C
- (d) D
- (e) F

**Q22.** Which of the following would be the FIFTH sentence after rearrangement?

- (a) A
- (b) B
- (c) E
- (d) D
- (e) F

**Q23.** Which of the following would be the FOURTH sentence after rearrangement?

- (a) A
- (b) B
- (c) C
- (d) D
- (e) F

**Directions (24-25):** In the following question, sentences are given with a part in bold. The given phrase in the bold may or may not contain an error. The options following can replace the incorrect phrase. The correct phrase that is to be replaced will be your answer. If the sentences are

correct then select 'No improvement required' as your answer.

**Q24.** The Government's new policies intended to double incomes of farmers, **which has been** languishing while stock markets are soaring.

- (a) who have been
- (b) that has being
- (c) which was been
- (d) which have been
- (e) No improvement required

**Q25.** Prime Minister **will came** Dehradun on next Monday to inaugurate and lay the foundation stone of multiple projects.

- (a) will visit
- (b) was coming
- (c) have gone
- (d) had visited
- (e) No improvement required

**Directions (26-30):** Read each sentence to find out whether there is any grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is 'No error', the answer is 'e'. (Ignore errors of punctuation, if any.)

**Q26.** The Manager (A)/, as well as (B)/ the team members, (C)/ are excited. (D)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error

**Q27.** Diabetes affect(A)/ many people (B)/ around (C)/ the world. (D)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error

**Q28.** Not for a moment (A)/ I think I would be (B)/ offered the job, (C)/ so I was amazed when I got it. (D)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error

**Q29.** Sheela will have (A)/ reached her (B)/ grandparents' house (C)/ by this time next week.(D)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error

**Q30.** It had (A)/ stopped raining (B)/ when I (C)/ had left the office. (D)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error



**Direction (31 – 35):** What will come in the place of questions (?) mark in following number series.

**Q31.** 8, 12, 30, 105, ?, 2598.75

- (a) 472.5
- (b) 470.5
- (c) 476.5
- (d) 471.5
- (e) 468.5

**Q32.** 9, 19, 39, 79, ?, 319

- (a) 221
- (b) 175
- (c) 125
- (d) 159
- (e) 199

**Q33.** 580, 557, 528, 497, ?, 419

- (a) 463
- (b) 457
- (c) 461
- (d) 459
- (e) 460

**Q34.** 81, 72, 136, 111, ?, 278

- (a) 325
- (b) 347
- (c) 323
- (d) 327
- (e) 321

**Q35.** 14, 20, 28, 39, ?, 74

- (a) 50
- (b) 52
- (c) 54
- (d) 56
- (e) 59

**Direction (36 – 40):** Table given below shows ratio of books to pens sold by four different shops and it also shows average number of books and pens sold by these four shops.

Shop s	Ratio of total books to pen sold (books : Pens)	Average number of books & Pens sold
<b>A</b>	4 : 1	100
<b>B</b>	1 : 3	60
<b>C</b>	2 : 3	75
<b>D</b>	3 : 2	90

**Q36.** If shop D sold each book at Rs. 75 & each pen at Rs. 30, then find the total earning (in Rs.) of shop D by selling all the books and pens?

- (a) 10220
- (b) 10240
- (c) 10260
- (d) 10360
- (e) 10460

**Q37.** Total books sold by shop B is what percent less than total pens sold by shop C?

- (a)  $63\frac{2}{3}\%$
- (b)  $33\frac{1}{3}\%$
- (c)  $60\frac{2}{3}\%$
- (d)  $66\frac{2}{3}\%$
- (e)  $66\frac{1}{3}\%$

**Q38.** Find difference between average number of books sold by A & C and total pens sold by B?

- (a) 10
- (b) 5
- (c) 15
- (d) 25
- (e) 20

**Q39.** If shop X sold 50% more pens than shop A and total books sold by shop X is 20 less than that of by shop C, then find total pens sold by X is what percent more than total books sold by X?

- (a) 20%
- (b) 50%
- (c) 30%
- (d) 40%
- (e) 10%

**Q40.** Find the ratio of total pens sold by shop A to total books sold by shop C?

- (a) 1 : 3
- (b) 2 : 3
- (c) 3 : 4
- (d) 2 : 5
- (e) 1 : 4

**Directions (41–45):** In the following questions, there are two equations in x and y. You have to solve both the equations and give answer.

- (a) if  $x > y$
- (b) if  $x < y$
- (c) if  $x \geq y$

- (d) if  $x \leq y$   
(e) if  $x = y$  or there is no relation between  $x$  and  $y$

**Q41.** I.  $x^2 + 3x - 40 = 0$   
II.  $y^2 - 11y + 30 = 0$

**Q42.** I.  $2x^2 + 7x - 15 = 0$   
II.  $3y^2 + 5y - 12 = 0$

**Q43.** I.  $2x^2 + 26x + 84 = 0$   
II.  $y^2 + 15y + 56 = 0$

**Q44.** I.  $x^2 - 4x - 221 = 0$   
II.  $y^2 - y - 132 = 0$

**Q45.** I.  $x^2 - 13x + 42 = 0$   
II.  $y^2 - 17y + 72 = 0$

**Q46.** Jaya & Shivani invested Rs. 5000 & Rs. 6000 respectively in a business. After six-month Riya join the business with capital of Rs. 3000 and Jaya left the business. If at the end of one year the difference between profit share of Jaya & Riya is Rs. 200, then find the profit share (in Rs.) of Shivani.

- (a) 3000
- (b) 2400
- (c) 4200
- (d) 3600
- (e) 1200

**Q47.** If ratio of radius to height of a cylinder in 7 : 6 and curved surface area of cylinder is  $1056 \text{ cm}^2$ , then find the total surface area of cylinder?

- (a)  $2218 \text{ cm}^2$
- (b)  $2228 \text{ cm}^2$
- (c)  $2248 \text{ cm}^2$

- (d)  $2288 \text{ cm}^2$
- (e)  $2268 \text{ cm}^2$

**Q48.** Ram spend 20% of his monthly income on rent, 10% from the remaining income he spends on food, 30% on travel and  $\frac{2}{5}$  amount he gives to his mother. If the difference between amount he spends on travel & amount he gives to his mother is Rs. 11200, then find the monthly income of Ram?

- (a) 120000 Rs.
- (b) 140000 Rs.
- (c) 150000 Rs.
- (d) 180000 Rs.
- (e) 130000 Rs.

**Q49.** Speed of bike is 10% less than speed of car and bike takes two hours more than car to cover 180 km distance, while car covers 300 km. Find the speed (in km/hr) of bike?

- (a) 50
- (b) 45
- (c) 36
- (d) 54
- (e) 27

**Q50.** The ratio of present age of Aman to that of David is 2 : 5 and after ten years the sum of their age will be 69 years. Find the difference between present age of Aman & David?

- (a) 14 years
- (b) 21 years
- (c) 17 years
- (d) 19 years
- (e) 7 years



**Q51.** A vessel contains total 95 liter mixture of milk & water in the ratio of 15 : 4 respectively. X liter mixture of mixture taken out from the vessel and 18 liters water added in the remaining mixture, then the new ratio of milk to water becomes 3 : 2, find the value of X?

- (a) 9.5
- (b) 57
- (c) 27.5
- (d) 19
- (e) 38

**Q52.** The ratio of speed of a boat in downstream to upstream is 5 : 3 and total time taken by boat to cover 30 km distance in upstream is 5 hours. Find time taken by boat to cover 40 km in downstream.

- (a) 4 hours
- (b) 6 hours
- (c) 8 hours
- (d) 2 hours
- (e) 3 hours

**Q53.** A man invested Rs. 8000 in each schemes A & B. Scheme A offers simple interest at the rate of 9% p.a. for three years, while scheme B offers simple interest at the rate of 8% p.a. for four years. Find the total interest (in Rs.) get by man from both schemes.

- (a) 4700
- (b) 4760
- (c) 4780
- (d) 4520
- (e) 4720

**Q54.** A can do 25% of a work in 7 days, while B can do  $\frac{2}{7}$  of the same work in 12 days. A and B start work together and after 12 days both

replace by C, who complete the remaining work in three days. Find in how many days C can complete the same work alone?

- (a) 6.5 days
- (b) 7.5 days
- (c) 8.5 days
- (d) 10.5 days
- (e) 12.5 days

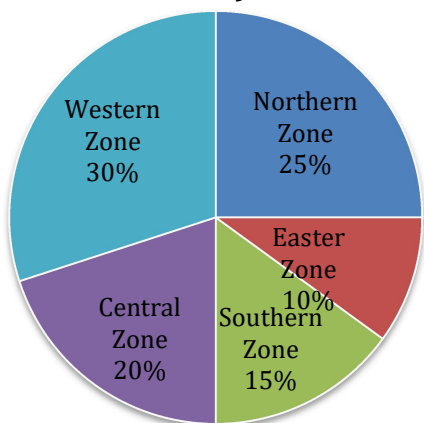
**Q55.** A shopkeeper sold a table at 20% profit and a chair at profit of 25%. If the cost price of the chair is equal to the selling price of table and shopkeeper earned an overall profit of Rs. 400, then find the sum of selling price of both the articles together?

- (a) 2160 Rs.
- (b) 1760 Rs.
- (c) 1960 Rs.
- (d) 2260 Rs.
- (e) 2460 Rs.

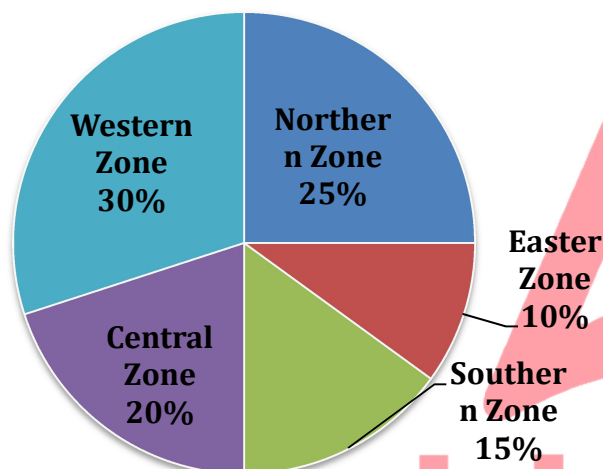
**Directions (56-60):** Study the charts given below carefully and answer the following questions.

Pie chart shows the percentage distribution of total students (Science +Commerce) in 12<sup>th</sup> class of five different Zones and table shows the number of students in same class in science of same zones.

**Total students (Science + Commerce) = 4000**



**Total students (Science + Commerce) = 4000**



Zone	Students in Science
Northern Zone	400
Eastern Zone	310
Southern Zone	430
Central Zone	600
Western Zone	750

**Q56.** Number of students of commerce stream in Northern Zone are what percent more or less than number of total students in Southern Zone.

- (a) 20%
- (b) 0%
- (c) 5%
- (d) 10%
- (e) 12.5%

**Q57.** Number of Commerce students in Western zone are how much more than Science students in Northern zone, Eastern zone and Southern zone together.

- (a) 660
- (b) 770
- (c) 630
- (d) 730
- (e) 690

**Q58.** If monthly library fee per student in Central zone for commerce students is Rs.60 which is Rs.20 less than that for science students, then find total monthly fee of library of Central zone.

- (a) Rs.60000
- (b) Rs.45000
- (c) Rs.42000
- (d) Rs.54000
- (e) Rs.63000

**Q59.** If Western zone also have Arts students and ratio of sum of students of science and commerce in western zone and Arts students in western zone is 5 : 7, then find Arts students in western zone are how much more than commerce students in Southern zone.

- (a) 1510
- (b) 1430
- (c) 1570
- (d) 1620
- (e) 1690

**Q60.** Find ratio of science students in Western Zone to Commerce students in eastern zone.

- (a) 7 : 1
- (b) 22 : 9

- (c) 21 : 8
- (d) 17 : 5
- (e) 25 : 3

**Directions (61-65):** Read the given data carefully and answer the following questions.

There are 1080 (Fabric + paper) bag sold by shop A, B and C.

- (i) Shop A sold (paper + fabric) bag 25% more than shop B. Equal number of paper and fabric bag sold by shop B.
- (ii) The number of paper bag sold by shop B is double the fabric bag sold by A.
- (iii) The number of paper bag sold by shop C is 50% of fabric bag sold by shop A.
- (iv) The number of fabric bag sold by shop C is 25% of that by shop B.

**Q61.** Find the ratio between paper bag sold by B and fabric bag sold by C?

- (a) 4: 1
- (b) 3: 2
- (c) 5: 2
- (d) 5: 4
- (e) 5: 1

**Q62.** Fabric bag sold by shop A is what percentage more than paper bag sold by shop C?

- (a) 50%
- (b) 25%
- (c) 200%
- (d) 100%
- (e) 150%

**Q63.** What is the difference between average number of paper bag sold by all the shops and fabric bag sold by all the shops?

- (a) 110
- (b) 108
- (c) 106
- (d) 103
- (e) 115

**Q64.** Fabric bags sold by shop A and C together is how much more or less than paper bag sold by shop B and C together?

- (a) 90
- (b) 102
- (c) 116
- (d) 108
- (e) 124

**Q65.** Each paper bag and each fabric bag of shop A sold at Rs. 10 and Rs.15 respectively. Find total revenue from selling paper bag and fabric bag of shop A?

- (a) Rs.4750
- (b) Rs.5280
- (c) Rs.5940
- (d) Rs.5480
- (e) Rs.6220

**Direction (66-70):** Study the following information and answer the questions given below:

Fourteen persons viz. A, B, C, D, P, Q, R, S, K, L, M, N, Y and Z sit in two parallel rows (but not necessarily in the same order) in such a way that seven persons sit in each row. A, B, P, Q, K, L and Y sit in row 1 and face north while C, D, R, S, M, N and Z sit in row 2 and face south. The persons in row 1 sit exactly opposite to the persons sit in row 2.

Y sits diagonally opposite to Z. One person sits between Z and R. P faces R and sits immediate right of A. The number of persons sit between Y and A is same as the number of persons sit to the right of M. B sits second to the right of the one who faces R. Three persons sit between B and Q. C sits diagonally opposite to Q. C and D are immediate neighbours. N faces K.

**Q66.** Who among the following faces S?

- (a) P
- (b) L
- (c) A
- (d) B
- (e) None of these

**Q67.** Who among the following sits third to the left of L?

- (a) Q
- (b) A
- (c) P
- (d) K
- (e) Y

**Q68.** What is the position of M with respect to D?

- (a) Immediate right
- (b) Immediate left
- (c) Third to the left
- (d) Second to the left
- (e) Second to the right

**Q69.** Who among the following sits fourth to the right of the one who faces Z?

- (a) Y
- (b) P
- (c) K

- (d) L
- (e) B

**Q70.** Four among the following five are alike in a certain way and related to a group, who among the following does not belong to the group?

- (a) Z
- (b) C
- (c) Q
- (d) R
- (e) Y

**Q71.** In the given number '85274369', if all the odd digits are decreased by 1 and all the even digits are decreased by 2, then what would be the sum of the digits which are not repeated in the new number formed after rearrangement?

- (a) 10
- (b) 14
- (c) 2
- (d) 8
- (e) None of these

**Directions (72-74):** In each of the questions below are given some statements followed by some Conclusions. You have to take the given statements to be true even, if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**Q72.** Statements: Some key is chain. Some chain is plant. All plant is lock.

Conclusion:

I: No key is lock is a possibility.

II: All lock is plant.

**Q73.** Statements: Only a few story is real. No real is drama. No drama is news.

Conclusion:

I: Some story is not real.

II: Some news can be real.

**Q74.** Statements: Only pen is city. Some pen is black. Only a few office is black.

Conclusion:

I: Some black is not pen.

II: All office is pen.

**Direction (75-78):** Study the following information and answer the questions given below:

Nine persons i.e., H, I, J, K, L, M, B, P and T visit three different cities viz. Mumbai, Pune and Bangalore but not necessarily in the same order. At least two persons but not more than four persons visit the same city.

H visits with T. T does not visit Pune. K visits Mumbai. B visits neither Pune nor with K. J visits only with P. More than three persons visit Mumbai. L and I visit together. M does not visit with I.

**Q75.** Who among the following visits Pune?

(a) L

(b) P

(c) J

(d) M

(e) Both (b) and (c)

**Q76.** Who among the following visits with K?

(a) H

(b) T

(c) L

(d) Both (a) and (b)

(e) None of these

**Q77.** Four among the following five are same in a certain manner and related to a group, who among the following does not belong the group?

(a) K

(b) B

(c) M

(d) T

(e) H

**Q78.** Which among the following pair is incorrect as per the data given?

(a) I-L

(b) P-J

(c) L-M

(d) T-K

(e) H-M

**Direction (79-81):** Study the given information and answer the following questions:

A certain number of persons sit in a linear row and all face north. Four persons sit between A and B. G sits second to the right of B. One person sits between G and K. The number of persons sit between B and K is same as the number of persons sit to the right of K. V sits fifth to the left

of G. P sits third from one of the extreme ends. P sits just left of V. P sits to the left of A.

**Q79.** Find the total number of persons sit in the row?

- (a) 14
- (b) 13
- (c) 15
- (d) 16
- (e) Can't be determined

**Q80.** If P sits exactly between V and R, then how many persons sit between R and G?

- (a) Three
- (b) Four
- (c) Seven
- (d) Six
- (e) None of these

**Q81.** What is the position of A with respect to W, if only four persons sits to the right of W?

- (a) Immediate right
- (b) Third to the left
- (c) Fourth to the right
- (d) Immediate left
- (e) Second to the right

**Direction (82-85):** In these questions, relationship between different elements is shown in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer:

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**Q82.** Statements:  $W > Q \geq P < N \leq A$ ;  $N > R = X$   
Conclusions: I.  $A > X$  II.  $Q > N$

**Q83.** Statements:  $V \leq B \leq M = S \geq F \geq G = H$

Conclusions: I.  $M > G$  II.  $M = H$

**Q84.** Statements:  $L \leq C \geq F > K \geq D > M$

Conclusions: I.  $L < F$  II.  $C > D$

**Q85.** Statements:  $N > V \geq L \geq O \leq W \leq A > D$

Conclusions: I.  $N > O$  II.  $A > O$

**Direction (86-90):** Study the following information carefully to answer the given questions:

Six persons P, Q, R, S, T and U live in a three-storey building such that ground floor is numbered as 1, above it is floor 2 then topmost floor is numbered as 3. Each of the floor has 2 flats in it as flat-A and flat-B. Flat-A of floor-2 is immediately above flat-A of floor-1 and immediately below flat-A of floor-3 and so on. In the same way flat-B of floor-2 is immediately above flat-B of floor-1 and immediately below flat-B of floor-3 and so on. Flat-A is in west of flat-B. They like different country.

R lives in the east of the one who likes Norway. One person lives between U and R but not live in the same flat number. The one who likes Russia live in the south-west of Q, who live just above T's flat. The one who likes Latvia does not live in flat B. P lives just above S's flat but not like Norway. The one who likes Kosovo lives above the one who likes Greece and live below the one who likes Serbia.

**Q86.** Who among the following lives just below P's flat?

- (a) The one who likes Greece
- (b) U
- (c) The one who likes Norway
- (d) R
- (e) None of these

**Q87.** Which of the following statement is true?

- I. U lives on the 3<sup>rd</sup> floor
- II. T does not like Kosovo
- III. R lives in the odd number floor.

- (a) Both I and III
- (b) Only I
- (c) Both II and III
- (d) Only II
- (e) Only III

**Q88.** Who lives in Flat B of 2<sup>nd</sup> floor?

- (a) P
- (b) S
- (c) Q
- (d) T
- (e) R

**Q89.** Who lives in the west of the one who likes Kosovo?

- (a) P
- (b) The one who likes Russia
- (c) Q
- (d) The one who likes Norway
- (e) Both (a) and (b)

**Q90.** Four of the following five are alike in a certain way and so form a group. Find the one who does not belong to that group?

- (a) U-Serbia
- (b) P-Russia
- (c) T-Greece
- (d) S-Kosovo

(e) Q-Latvia

**Q91.** In the given word "LAVISHLY" if all the consonants replaced with its previous letter and all the vowels replaced with its next letter after that remove all the repeated letter and arranged them in alphabetical order then, which of the following letters is 3<sup>rd</sup> from the left end?

- (a) J
- (b) R
- (c) U
- (d) G
- (e) B

**Directions (92-94):** Study the following information and answer the given questions

Point K is 12m to the West of point G. Point M is 4m to the North of Point K. Point J is 10m to the South of Point L. Point F is 6m to the West of point J. Point G lies exactly between Point L and Point J. Point F is 5m north of point O. Point Q is 18m west of point O.

**Q92.** In which direction is Point J with respect to Point M?

- (a) North
- (b) Northwest
- (c) South
- (d) Southeast
- (e) None of these

**Q93.** What is the shortest distance between Point K and Point L?

- (a) 10m
- (b) 12m
- (c) 13m
- (d) 17m
- (e) None of these

**Q94.** If Point N is 12m to the East of Point Q, then what is the shortest distance between Point K and Point N?

- (a) 12m
- (b) 10m
- (c) 9m
- (d) 8m
- (e) 16m

**Directions (95-99):** Study the following information and answer the given questions.

5 persons like different color one after another. Only two persons after the one who likes red. One person between D and the one who likes red. There are as many persons after D as same as before the one who likes white. The one who likes Purple is before than one who likes White and after the one who likes Yellow but not just after. O is before L and after M, who does not like Green. K is between M and O.

**Q95.** How many persons after M?

- (a) Three
- (b) One
- (c) None
- (d) Two
- (e) Four

**Q96.** Who among the following like Purple?

- (a) L
- (b) K
- (c) O
- (d) M
- (e) None of these

**Q97.** The number of persons between O and L is same as the number of persons between \_\_ and \_\_?

- (a) M-O
- (b) D-K
- (c) K-L
- (d) M-K
- (e) O-D

**Q98.** How many persons between M and the one who likes white?

- (a) None
- (b) Two
- (c) Three
- (d) Either (b) or (c)
- (e) None of these

**Q99.** Four of the following five are alike in a certain way and so form a group. Find the one who does not belong to that group?

- (a) L-Purple
- (b) M-Yellow
- (c) O-Purple
- (d) K-Red
- (e) D-Green

**Q100.** In the word '**OBSEQUIOUS**', how many pairs of the letters have the same number of letters between them in both forward and backward direction in the word as in alphabetical series?

- (a) More than four
- (b) One
- (c) None
- (d) Three
- (e)

Two



## Solutions

### S1. Ans.(d)

**Sol.** The correct choice is option (d). The usage of fellow is correct in statement (ii) and statement (iii) while in statement (i), fellow should be replaced with 'follow'.

Fellow means a person in the same position, involved in the same activity, or otherwise associated with another.

### S2. Ans.(b)

**Sol.** The correct choice is option (b). The usage of accent is correct in statement (i) and statement (ii) while in statement (iii), 'accent' should be replaced with 'undo'.

Accent means a distinctive way of pronouncing a language, especially one associated with a particular country, area, or social class.

Accent in statement (ii) means a feature which gives a distinctive visual emphasis to something.

Undo means cancel or reverse the effects or results of (a previous action or measure).

### S3. Ans.(a)

**Sol.** The correct choice is option (a). The usage of wind is correct only in statement (ii) while in statement (i), 'wind' should be replaced with 'coordination' and in statement (iii), 'wind' should be replaced by 'significance'. Wind means to wrap.

### S4. Ans.(d)

**Sol.** Among the given options, only (a) and (c) are correct with reference to the context of the given question. While statement (b) is incorrect. Hence, option (d) is the right answer choice.

Refer to the mid-lines of the first paragraph, *"The present review attempts to understand the*

*virtual social connectedness, excessive use of digital technology, its consequences and suggest strategies to maintain healthy use of digital technology."*

### S5. Ans.(c)

**Sol.** Because it has increased human exposure to long periods of time spent in front of a screen, the usage of digital technology has become more than a source of concern. Thus, we can infer that option (c) is the right answer choice.

Refer to the starting lines of the second paragraph, *"The last two decades have seen a bright future in the use of digital technology. It has accelerated human exposure to prolonged screen time which is becoming a growing concern."*

### S6. Ans.(e)

**Sol.** Among the given options, both (a) and (b) are correct with reference to the context of the given question. While statement (c) is incorrect based on the information provided in the given passage. Hence, option (e) is the right answer choice.

Refer to the last lines of the second paragraph, *"Screen time refers to the amount of time spent and the diverse activities performed online using digital devices. For instance, screen time encompasses both, using digital devices for work purposes as well as for leisure and entertainment."*

### S7. Ans.(e)

**Sol.** All of the given statements are correct with reference to the context of the given question. Hence, option (e) is the right answer choice.

Refer to the starting lines of the third paragraph, *"The COVID-19 pandemic came with restrictions, regulations and stay-at-home orders. Many individuals could not return to their homes, many stuck in foreign lands and many in solitude. As a result, the use of digital devices has increased manifold across the globe. Irrespective of age, people are pushed to rely on digital platforms. Education, shopping, working, meeting, entertaining and socializing suddenly leaped from offline to online."*

**S8. Ans.(d)**

**Sol.** Among the given statements, only (a) and (c) are correct with reference to the context of the given question. While statement (b) is incorrect. Hence, option (d) is the right answer choice.

Refer to the last lines of the third paragraph, *"At the same time, prolonged screen time has caused concerns related to its impact on physical and mental health. While mindful use of digital devices is linked with well-being, excessive screen time is reported to be associated with a range of negative mental health outcomes such as psychological problems, low emotional stability, and a greater risk for depression or anxiety."*

**S9. Ans.(e)**

**Sol.** All of the given statements are correct with reference to the information provided in the given passage. Thus, there is no incorrect statement. Hence, option (e) is the right answer choice.

**S10. Ans.(c)**

**Sol.** Among the given options, 'flow' is the most appropriate synonym of the highlighted word. Hence, option (c) is the right answer choice. The word 'run' means to pass or cause to pass quickly in a particular direction.

- (a) Coast- the part of the land adjoining or near the sea.
- (b) Slide- move smoothly along a surface while maintaining continuous contact with it.
- (c) Flow- the action or fact of moving along in a steady, continuous stream.
- (d) Swipe- hit or try to hit with a swinging blow.
- (e) Ruin- reduce (a building or place) to a state of decay, collapse, or disintegration.

**S11. Ans.(b)**

**Sol.** Among the given options, 'dim' is the most appropriate antonym of the highlighted word. Hence, option (b) is the right answer choice. The word 'bright' means giving out or reflecting much light; shining. While 'dim' means (of a light, colour, or illuminated object) not shining brightly or clearly.

- (a) Lucid- expressed clearly; easy to understand.
- (c) Glare- stare in an angry or fierce way.
- (d) Canny- having or showing shrewdness and good judgement.
- (e) Ablaze- filled with anger or another strong emotion.

**S12. Ans.(c)**

**Sol.** Among the given options, statement (c) best illustrates the meaning of the highlighted phrase. Hence, option (c) is the right answer choice. The phrase "blessing in disguise" means an apparent misfortune that eventually has good results.

**S13. Ans.(e)**

**Sol.** All of the given words are similar in meaning to the highlighted word. Hence, option (e) is the right answer choice. The word 'shallow' means not exhibiting, requiring, or capable of serious thought.

(a) superficial- lacking depth of character or understanding.

(b) frivolous- not having any serious purpose or value.

(c) trivial- of little value or importance.

**S14. Ans.(c)**

**Sol.** The correct sequence is CBA. Therefore, the correct sentence will be "As the **modern** lifestyle continues to evolve; a **phenomenon** that has been further accelerated during the pandemic, is that of '**staying** at home.'"

**S15. Ans.(b)**

**Sol.** The correct sequence is BAC. Therefore the correct sentence will be 'The death of five elephants has again **highlighted** the gaps in efforts to **reduce** man-animal **conflicts** in the country.'

**S16. Ans.(a)**

**Sol.** The correct sequence is ACB. Therefore the correct sentence will be "The leap of **artificial** intelligence in the **education** sector has helped **students** and educators."

**S17. Ans.(b)**

**Sol.** The correct sequence is BAC. Therefore the correct sentence will be "The additional budget for MGNREGA was among the most **keenly** awaited, as pending payments for wages have

**threatened** to cripple **implementation** of the scheme."

**S18. Ans.(c)**

**Sol.** The correct sequence is CAB. Therefore the correct sentence will be "The cyclone will briefly gain in **strength** and become a **severe** cyclonic storm, but is unlikely to make a **conventional** landfall."

**S19. Ans.(e)**

**Sol.** Sentence (C) will be the introductory sentence as it best presents the theme of the given paragraph which is the history of the introduction of Serbian Railways. The next sentence is (E) as it mentions the inauguration of the first rail line. Further, sentence (E) will be followed by sentence (D) as it further describes the location of part of the rail line which has already been described in statement (E). Now, sentence (D) will be followed by sentence (A) as it further describes the transformation of the type of train engine later. Further, sentence (A) will be followed by sentence (B) because it states the benefits of the train invention to the country's economic development. And it is given that sentence (F) will be the last sentence. Therefore, the correct rearrangement of the given sentences would be "CEDABF".

**S20. Ans.(d)**

**Sol.** Sentence (C) will be the introductory sentence as it best presents the theme of the given paragraph which is the history of the introduction of Serbian Railways. The next sentence is (E) as it mentions the inauguration of the first rail line. Further, sentence (E) will be

followed by sentence (D) as it further describes the location of part of the rail line which has already been described in statement (E). Now, sentence (D) will be followed by sentence (A) as it further describes the transformation of the type of train engine later. Further, sentence (A) will be followed by sentence (B) because it states the benefits of the train invention to the country's economic development. And it is given that sentence (F) will be the last sentence. Therefore, the correct rearrangement of the given sentences would be "CEDABF".

**S21. Ans.(c)**

**Sol.** Sentence (C) will be the introductory sentence as it best presents the theme of the given paragraph which is the history of the introduction of Serbian Railways. The next sentence is (E) as it mentions the inauguration of the first rail line. Further, sentence (E) will be followed by sentence (D) as it further describes the location of part of the rail line which has already been described in statement (E). Now, sentence (D) will be followed by sentence (A) as it further describes the transformation of the type of train engine later. Further, sentence (A) will be followed by sentence (B) because it states the benefits of the train invention to the country's economic development. And it is given that sentence (F) will be the last sentence. Therefore, the correct rearrangement of the given sentences would be "CEDABF".

**S22. Ans.(b)**

**Sol.** Sentence (C) will be the introductory sentence as it best presents the theme of the given paragraph which is the history of the introduction of Serbian Railways. The next sentence is (E) as it mentions the inauguration of the first rail line. Further, sentence (E) will be

followed by sentence (D) as it further describes the location of part of the rail line which has already been described in statement (E). Now, sentence (D) will be followed by sentence (A) as it further describes the transformation of the type of train engine later. Further, sentence (A) will be followed by sentence (B) because it states the benefits of the train invention to the country's economic development. And it is given that sentence (F) will be the last sentence. Therefore, the correct rearrangement of the given sentences would be "CEDABF".

**S23. Ans.(a)**

**Sol.** Sentence (C) will be the introductory sentence as it best presents the theme of the given paragraph which is the history of the introduction of Serbian Railways. The next sentence is (E) as it mentions the inauguration of the first rail line. Further, sentence (E) will be followed by sentence (D) as it further describes the location of part of the rail line which has already been described in statement (E). Now, sentence (D) will be followed by sentence (A) as it further describes the transformation of the type of train engine later. Further, sentence (A) will be followed by sentence (B) because it states the benefits of the train invention to the country's economic development. And it is given that sentence (F) will be the last sentence. Therefore, the correct rearrangement of the given sentences would be "CEDABF".

**S24. Ans.(d)**

**Sol.** The highlighted phrase in the given sentence is incorrect. Because noun 'incomes' is plural so we need plural verb 'have' here therefore option (b) is also incorrect. Option (a) is

incorrect because we use 'who' as relative pronoun for living beings. Option (c) 'was been' is grammatically incorrect. Therefore option (d) is correct choice.

**S25. Ans.(a)**

**Sol.** The highlighted phrase in the given sentence is incorrect. The correct replacement should be "will visit". The sentence is in simple future tense. Therefore, the structure should be Subject+ will + V1.

**S26. Ans.(d)**

**Sol.** When a phrase comes between the subject and the verb, remember that the verb still agrees with the subject, not the noun or pronoun in the phrase following the subject of the sentence. Since the subject "manager" is singular, the verb following should also be singular i.e., 'is'.

**S27. Ans.(a)**

**Sol.** 'Diabetes' is a non-countable noun and all Noncount nouns take a singular verb. Thus, 'affect' should be replaced by 'affects'.

**S28. Ans.(b)**

**Sol.** The error lies in part (B) of the sentence. We invert the subject and verb if not + a prepositional phrase or a clause is in the initial position. The correct phrase should be " did I think I would be".

**S29. Ans.(e)**

**Sol.** Future Perfect Tense is used to refer to an action, which would be completed at a time later on. Since the sentence correctly follows the

structure of future perfect tense, there is no error in it.

**S30. Ans.(d)**

**Sol.** When two events of past are mentioned. The event that occurred earlier will be in past perfect tense, while later event should follow the structure of simple past tense. Therefore, 'had' should be eliminated in part (D) of the sentence.

**S31. Ans.(a)**

**Sol.** Pattern of series –

$$8 \times 1.5 = 12$$

$$12 \times 2.5 = 30$$

$$30 \times 3.5 = 105$$

$$105 \times 4.5 = 472.5$$

$$472.5 \times 5.5 = 2598.75$$

**S32. Ans.(d)**

**Sol.** Pattern of series –

$$9 \times 2 + 1 = 19$$

$$19 \times 2 + 1 = 39$$

$$39 \times 2 + 1 = 79$$

$$79 \times 2 + 1 = 159$$

$$159 \times 2 + 1 = 319$$

**S33. Ans.(e)**

**Sol.** Pattern of series –

Subtraction of consecutive prime number –

$$580 - 23 = 557$$

$$557 - 29 = 528$$

$$528 - 31 = 497$$

$$497 - 37 = 460$$

$$460 - 41 = 419$$

**S34. Ans.(d)****Sol.** Pattern of series –

$$81 - 3^2 = 72$$

$$72 + 4^3 = 136$$

$$136 - 5^2 = 111$$

$$111 + 6^3 = 327$$

$$327 - 7^2 = 278$$

**S35. Ans.(c)****Sol.** Pattern of series –

$$\begin{array}{ccccccc}
 14, & & 20, & & 28, & & 39, & & ? = 54, & & 74 \\
 +6 & & +8 & & +11 & & +15 & & +20 & & \\
 & & +2 & & +3 & & +4 & & +5 & & 
 \end{array}$$

**S36. Ans.(c)****Sol.** Total earning of shop D = (90

$$\times 2 \times \frac{3}{5} \times 75) + (90 \times 2 \times \frac{2}{5} \times 30)$$

$$= 8100 + 2160 = 10260 \text{ Rs.}$$

**S37. Ans.(d)****Sol.** Total books sold by shop B = 60

$$\times 2 \times \frac{1}{4} = 30$$

$$\text{Total pens sold by shop C} = 75 \times 2 \times \frac{3}{5} = 90$$

$$\text{Required percentage} = \frac{90-30}{90} \times 100 = 66\frac{2}{3}\%$$

**S38. Ans.(e)****Sol.** Total books sold by shop A = 100

$$\times 2 \times \frac{4}{5} = 160$$

$$\text{Total books sold by shop C} = 75 \times 2 \times \frac{2}{5} = 60$$

Average number of books sold by shop A &amp; C

$$= \frac{160+60}{2} = 110$$

$$\text{Total pens sold by shop B} = 60 \times 2 \times \frac{3}{4} = 90$$

$$\text{Required difference} = 110 - 90 = 20$$

**S39. Ans.(b)****Sol.** Total pens sold by shop X

$$= 100 \times 2 \times \frac{1}{5} \times \frac{150}{100} = 60$$

$$\text{Total books sold by shop X} = 75 \times 2 \times \frac{2}{5} - 20 = 40$$

$$\text{Required percentage} = \frac{60-40}{40} \times 100 = 50\%$$

**S40. Ans.(b)****Sol.** Total pens sold by shop A = 100

$$\times 2 \times \frac{1}{5} = 40$$

$$\text{Total books sold by shop C} = 75 \times 2 \times \frac{2}{5} = 60$$

$$\text{Required ratio} = 40 : 60 = 2 : 3$$

**S41. Ans.(d)****Sol.** I.  $x^2 + 8x - 5x - 40 = 0$ 

$$x(x+8) - 5(x+8) = 0$$

$$(x+8)(x-5) = 0$$

$$x = -8, 5$$

II.  $y^2 - 11y + 30 = 0$

$$y^2 - 6y - 5y + 30 = 0$$

$$y(y-6) - 5(y-6) = 0$$

$$(y-6)(y-5) = 0$$

$$y = 5, 6$$

$$\text{So, } y \geq x$$

**S42. Ans.(e)****Sol.** I.  $2x^2 + 10x - 3x - 15 = 0$ 

$$2x(x+5) - 3(x+5) = 0$$

$$(x+5)(2x-3) = 0$$

$$x = -5, \frac{3}{2}$$

II.  $3y^2 + 9y - 4y - 12 = 0$

$$3y(y+3) - 4(y+3) = 0$$

$$(y+3)(3y-4) = 0$$

$$y = -3, \frac{4}{3}$$

So, no relation can be established.

**S43. Ans.(c)****Sol.** II.  $2x^2 + 26x + 84 = 0$ 

$$x^2 + 13x + 42 = 0$$

$$x^2 + 6x + 7x + 42 = 0$$

$$x(x + 6) + 7(x + 6) = 0$$

$$(x + 6)(x + 7) = 0$$

$$x = -6, -7$$

I.  $y^2 + 7y + 8y + 56 = 0$

$$y(y + 7) + 8(y + 7) = 0$$

$$(y + 7)(y + 8) = 0$$

$$y = -7, -8$$

So,  $x \geq y$

**S44. Ans.(e)**

**Sol.** I.  $x^2 - 17x + 13x - 221 = 0$

$$x(x - 17) + 13(x - 17) = 0$$

$$(x - 17)(x + 13) = 0$$

$$x = -13, 17$$

II.  $y^2 - 12y + 11y - 132 = 0$

$$y(y - 12) + 11(y - 12) = 0$$

$$(y - 12)(y + 11) = 0$$

$$y = -11, 12$$

So, no relation can be established

**S45. Ans.(b)**

**Sol.** I.  $x^2 - 7x - 6x + 42 = 0$

$$x(x - 7) - 6(x - 7) = 0$$

$$(x - 7)(x - 6) = 0$$

$$x = 6, 7$$

II.  $y^2 - 9y - 8y + 72 = 0$

$$y(y - 9) - 8(y - 9) = 0$$

$$(y - 8)(y - 9) = 0$$

$$y = 8, 9$$

clearly,  $x < y$

**S46. Ans.(e)**

**Sol.** Profit ratio of Jaya, Shivani & Riya =  $(5000 \times 6) : (6000 \times 12) : (3000 \times 6)$

$$= 5 : 12 : 3$$

ATQ –

$$5 - 3 = 200$$

$$1 = 100 \text{ Rs.}$$

So, 12 = 1200 Rs.

**S47. Ans.(d)**

**Sol.** Let radius of cylinder =  $7x$

And, height of cylinder =  $6x$

ATQ –

$$2 \times \frac{22}{7} \times 7x \times 6x = 1056$$

$$x = 2 \text{ cm}$$

Total surface area of cylinder =  $2 \times \frac{22}{7} \times 14 \times (12 + 14) = 2288 \text{ cm}^2$

**S48. Ans.(b)**

**Sol.** Let monthly income of Ram =  $100x$

So, total amount spends on Rent =  $100x \times \frac{20}{100} = 20x$

Total amount spends on food =  $(100x - 20x) \times \frac{10}{100} = 8x$

Total amount spends on travel =  $(100x - 20x) \times \frac{30}{100} = 24x$

Amount he gives to his mother =  $(100x - 20x) \times \frac{2}{5} = 32x$

ATQ –

$$32x - 24x = 11200$$

$$x = 1400$$

So, monthly income of Ram = 140000 Rs.

**S49. Ans.(b)**

**Sol.** Let speed of car =  $10x \text{ km/hr}$

So, speed of bike =  $10x \times \frac{90}{100} = 9x \text{ km/hr}$

ATQ –

$$\frac{300}{10x} - \frac{180}{9x} = 2$$

$$x = 5$$

Speed of bike = 45 km/hr

**S50. Ans.(b)**

**Sol.** Let present age of Aman & David be  $2s$  and  $5s$  respectively

ATQ –

$$(2s + 10) + (5s + 10) = 69$$

$$7s = 49$$

$$s = 7 \text{ years}$$

$$\text{Required difference} = (5 - 2) \times 7 = 21 \text{ years}$$



**S51. Ans.(e)**

**Sol.** Total milk in mixture initially = 95

$$\times \frac{15}{19} = 75 \text{ liters}$$

Total water in mixture initially = 95

$$\times \frac{4}{19} = 20 \text{ liters}$$

ATQ –

$$\frac{75 - X \times \frac{15}{19}}{20 - X \times \frac{4}{19} + 1} = \frac{3}{2}$$

$$X = 38 \text{ liters}$$

**S52. Ans.(a)**

**Sol.** Let speed of boat in still water and speed of stream be  $x$  km/hr and  $y$  km/hr respectively

$$\frac{(x+y)}{(x-y)} = \frac{5}{3}$$

$$3x + 3y = 5x - 5y$$

$$2x = 8y$$

$$x : y = 4 : 1$$

ATQ

Let speed of boat in still water =  $4s$  km/hr

And speed of stream =  $s$  km/hr

$$\frac{30}{3s} = 5$$

$$s = 2 \text{ km/hr}$$

$$\text{Required time} = \frac{40}{(5 \times 2)} = 4 \text{ hours}$$

Alternate method

$$\frac{\text{upstream speed}}{\text{downstream speed}} = \frac{3x}{5x}$$

$$\text{Upstream speed of boat} = \frac{30}{5} = 6 \text{ km/hr}$$

$$3x = 6 \Rightarrow x = 2$$

$$\text{Downstream speed} = 5x = 5 \times 2 = 10 \text{ km/hr}$$

$$\text{Time taken by boat in downstream} = \frac{40}{10} = 4 \text{ hrs}$$

**S53. Ans.(e)**

**Sol.** Required sum =  $8000 \times \frac{9 \times 3}{100} + 8000 \times \frac{8 \times 4}{100}$   
 $= 2160 + 2560 = \text{Rs } 4720$

**S54. Ans.(d)**

**Sol.** Time taken by A to complete the whole work = 28 days.

Time taken by B to complete the whole work =  $12 \times \frac{7}{2} = 42$  days.

Let the efficiency of C =  $x$  units/day

ATQ,

$$12 \left( \frac{1}{28} + \frac{1}{42} \right) + 3x = 1$$

$$x = \frac{2}{21} \text{ unit/day.}$$

$$\text{Required time} = \frac{21}{2} = 10.5 \text{ days.}$$

**S55. Ans.(a)**

**Sol.** Let cost price of table =  $100a$

$$\text{So, selling price of table} = 100a \times \frac{120}{100} = 120a$$

And cost price of chair =  $120a$

$$\text{Then, selling price of chair} = 120a \times \frac{125}{100} = 150a$$

ATQ –

$$(120a + 150a) - (100a + 120a) = 400$$

$$a = 8 \text{ Rs.}$$

$$\text{So, selling price of both articles together} = (120 \times 8 + 150 \times 8) = 2160 \text{ Rs.}$$

**S56. Ans.(b)**



**Sol.** Commerce students in Northern zone =  
 $(4000 \times \frac{25}{100}) - 400$   
 $= 600$   
 Total students in Southern zone =  $(4000 \times \frac{15}{100})$   
 $= 600$   
 Required % =  $\frac{600-600}{600} \times 100$   
 $= 0$

**S57. Ans.(e)**

**Sol.** Commerce students in Western zone =  
 $(4000 \times \frac{30}{100}) - 750$   
 $= 450$   
 Science students in Northern zone, Eastern zone and Southern zone =  $400 + 310 + 430$   
 $= 1140$   
 Required difference =  $1140 - 450$   
 $= 690$

**S58. Ans.(a)**

**Sol.**  
 Commerce students in Central zone  
 $= \frac{4000 \times 20}{100} - 600 = 200$   
 Total monthly library fee =  $600 \times 80 + 200 \times 60$   
 $= 48000 + 12000$   
 $= \text{Rs. } 60000$

**S59. Ans.(a)**

**Sol.** Arts students in Western zone =  
 $(4000 \times \frac{30}{100}) \times \frac{7}{5}$   
 $= 1680$   
 Commerce students in Southern zone =  
 $(4000 \times \frac{15}{100}) - 430$   
 $= 170$   
 Required difference =  $1680 - 170$   
 $= 1510$

**S60. Ans.(e)**

**Sol.** Commerce students in Eastern Zone =  
 $(4000 \times \frac{10}{100}) - 310$   
 $= 90$   
 Required ratio =  $750 : 90$   
 $= 25 : 3$

**Solutions (61-65):**

Total number of bag sold by A, B, C → 1080  
 Let total bag sold by shop B be  $4x$ .  
 Shop A sold →  $5x$  (paper + fabric) bag.  
 Shop B sold equal no. of paper and fabric bag =  
 No. of paper bag sold by shop B =  $2x$   
 No. of fabric bag sold by shop B =  $2x$ .  
 No. of fabric bag sold by A =  $\frac{2x}{2} = x$   
 Number of fabric bag sold by C =  $0.5x$   
 Number of paper bag sold by C =  $x \times \frac{50}{100} = 0.5x$   
 ATQ.  
 $4x + x + 2x + 2x + 0.5x + 0.5x = 1080$   
 $x = 108$

Shop	Paper	Fabric	Total
A	432	108	540
B	216	216	432
C	54	54	108
Total	702	378	1080

**S61. Ans.(a)**

**Sol.** Required ratio =  $\frac{216}{54} = \frac{4}{1}$

**S62. Ans.(d)**

**Sol.** Required percentage =  $\frac{10}{54} \times 100$   
 $= 100\%$

**S63. Ans.(b)**

**Sol.** Required difference =  $\frac{702}{3} - \frac{378}{3}$   
 $= 108$

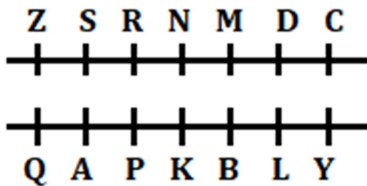
**S64. Ans.(d)**

**Sol.** Required difference =  $(216 + 54) - (108 + 54)$   
 $= 270 - 162$   
 $= 108$

**S65. Ans.(c)**

**Sol.** Required sum =  $108 \times 15 + 432 \times 10$   
 $= \text{Rs. } 5940$

**Solutions (66-70):**



**S66. Ans.(c)**

**S67. Ans.(c)**

**S68. Ans.(a)**

**S69. Ans.(e)**

**S70. Ans.(d)**

**S71. Ans.(d)**

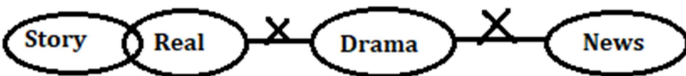
**S72. Ans.(a)**

**Sol.**



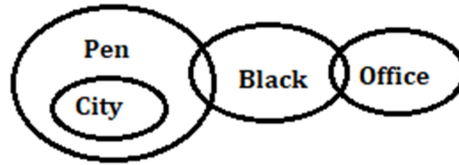
**S73. Ans.(e)**

**Sol.**



**S74. Ans.(d)**

**Sol.**



**Solutions (75-78):**

Bangalore	Pune	Mumbai
B	P	H
I	J	T
L		K
		M

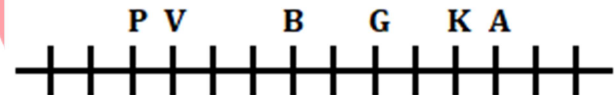
**S75. Ans.(e)**

**S76. Ans.(d)**

**S77. Ans.(b)**

**S78. Ans.(c)**

**Solutions (79-81):**



**S79. Ans.(a)**

**S80. Ans.(d)**

**S81. Ans.(e)**

**S82. Ans.(a)**

**Sol.** I.  $A > X$  (True) II.  $Q > N$  (False)

**S83. Ans.(c)**

**Sol.** I.  $M > G$  (False) II.  $M = H$  (False)

**S84. Ans.(b)**

**Sol.** I.  $L < F$  (False) II.  $C > D$  (True)

**S85. Ans.(a)**

**Sol.** I.  $N > O$  (True) II.  $A > O$  (False)

**Solutions (86-90):**

Floor	Flat-A	Flat-B
-------	--------	--------

3	U-Latvia	Q-Serbia
2	P-Russia	T-Kosovo
1	S-Norway	R-Greece

S86. Ans.(c)

S87. Ans.(a)

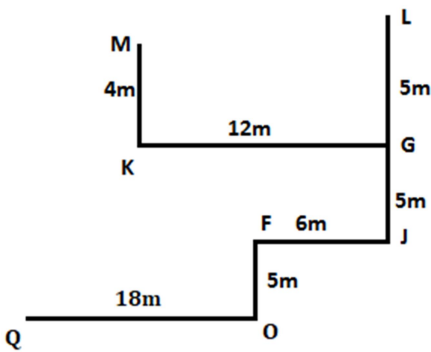
S88. Ans.(d)

S89. Ans.(e)

S90. Ans.(b)

S91. Ans.(a)

Solutions (92-94):



S92. Ans.(d)

S93. Ans.(c)

S94. Ans.(b)

Solutions (95-99):

D M K O L  
Green Yellow Red Purple White

S95. Ans.(a)

S96. Ans.(c)

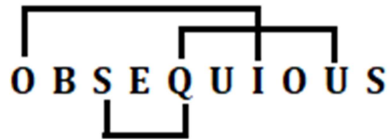
S97. Ans.(d)

S98. Ans.(b)

S99. Ans.(a)

S100. Ans.(d)

Sol.



A

## KERALA MEGAPACK

KPSC, SSC, RRB, Banking,  
AAI, ISRO

ജോലി എന്താണെങ്കിലും  
കോഴ്സ് ഒന്ന് മതി

