

## All India Mock test for MPSC Gr B Prelims- English

**Q1.** Identify the correct statements from the following.

- A.** Tritium has 2 protons and 2 neutrons.  
**B.** Tritium is an isotope of carbon  
(a) Only A  
(b) Only B  
(c) Both are correct  
(d) Both are inappropriate

**Q2.** Identify one of the following incorrect statements.

- A.** The element predicted as Eka boron is named gallium in the modern periodic table.  
**B.** The element predicted as Eka silicon is called scandium in the modern periodic table.  
**C.** Modern Periodic Table by Henry Mosley.  
(a) A and B  
(b) B and C  
(c) C only  
(d) ABC

**Q3.** A 400-watt lathe machine is operated for one hour daily. If the cost of one unit is Rs. 4, what is the cost of use of that machine in January?

- (a) Rs. 49.6  
(b) Rs  
(c) Rs. 50.6  
(d) Rs. 506

**Q4.** Identify the correct statement from the following.

- A.** Zepto is  $10^{-24}$   
**B.** Zatto means  $10^{24}$   
(a) Only a  
(b) Only B  
(c) Both are correct  
(d) Both are inappropriate

**Q5.** Which of the following scientists discovered infrared rays?

- (a) Chadwick  
(b) Ritter  
(c) Herschel  
(d) Taylor

**Q6.** Identify the correct statement from the following.

- A.** Filariasis is found in three specific districts of Karnataka.  
**B.** The disease is caused by the bite of a female Anopheles mosquito.  
**C.** The best time to do a blood test for this disease is from 10 pm to 2 am  
(a) Only A  
(b) Only B  
(c) C only  
(d) ABC

**Q7.** Identify the correct statements from the following.

- A.** Thrombin is formed by the combination of thromboplastin, prothrombin, and calcium.  
**B.** Fibrinogen is formed by combining thrombin and fibrin.  
(a) Only A correct  
(b) Only B correct  
(c) Both are correct  
(d) Both are inappropriate

**Q8.** Identify the following inaccurate statements.

- A.** Normally red blood cells are biconvex in shape.  
**B.** Blood clots act to initiate blood clotting.  
**C.** The human body has about 97000 km of blood vessels.  
(a) A and B  
(b) B and C  
(c) A and C  
(d) A B C



**Q9.** Identify the following inaccurate statements.

**A.** Each person breathes an average of 10 to 20 kg of air per day.

**B.** The spider breathes through the skin.

**C.** The kidneys do not normally filter sugar.

(a) Only A

(b) Only B

(c) C only

(d) ABC

**Q10.** Heparin is produced in which of the following organs?

(a) Kidney

(b) Pancreas

(c) The stomach

(d) Liver

**Q11.** Identify the correct statements.

**A.** Scientist Chaton divided living things into two types.

**B.** Scientist Copeland classified living things into three types.

**C.** Scientist Whittaker divided living things into five types

(a) AB

(b) BC

(c) AC

(d) ABC

**Q12.** Which of the following scientists replicated the process of protein synthesis produced by DNA in bacterial cells?

(a) Walter and Sutton

(b) Avery and McLeod

(c) Jacob and Monod

(d) None of these

**Q13.** Identify the correct statements from the following.

**A.** The length of epididymis is up to six meters

**B.** The length of a sperm is 100 micrometres.

**C.** Semen contains a sugar called sucrose to supply energy to the sperm.

(a) with only A

(b) with B only

(c) with C only

(d) With ABC

**Q14.** Match the following

**A.** Porifera 1. Butterflies

**B.** Cnidaria 2. Sycon

**C.** Arthropods 3. Portuguese Man of War

**D.** Mollusca 4. Snails

A B C D

(a) 1 2 3 4

(b) 2 4 3 1

(c) 2 3 1 4

(d) 4 2 1 3

**Q15.** Identify the plant sections from the given description.

- Grows in damp soils.

- The structure is flat and long and leaf-like.

- These are called amphibians of plant kingdom

(a) Thalophyta

(b) Bryophyta

(c) Pteridophyta

(d) Angiosperm

**Q16.** Identify the correct formula for finding refractive index.

(a)  $\angle i / \angle r$

(b)  $\sin i / \sin r$

(c)  $\angle r / \angle i$

(d)  $\sin r / \sin i$

**Q17.** Identify the correct statements from the following.

**A.** Ionic compounds have high solubility and boiling point.

**B.** Ionic compounds in molten and dissolved state are not conductors of electricity.

(a) Only A correct

(b) Only B correct

(c) Both are correct

(d) None is right

**Q18.** Make the right pair.

- A. Ethane 1. C<sub>2</sub>H<sub>6</sub>  
B. butane 2. C<sub>4</sub>H<sub>10</sub>  
C. Propanol 3. C<sub>3</sub>H<sub>8</sub>O  
D. pentene 4. C<sub>5</sub>H<sub>10</sub>

**A B C D**

- (a) 1 4 3 2  
(b) 1 2 3 4  
(c) 4 2 3 1  
(d) 1 3 2 4

**Q19.** Which of the following places has the lowest value of gravity acceleration?

- (a) The surface of the earth  
(b) Mount Everest  
(c) Orbit of spacecraft  
(d) Orbit of a communication satellite

**Q20.** In which calculation are the members of the halogen family present in the modern periodic table?

- (a) 15  
(b) 16  
(c) 17  
(d) 18

**Q21.** Identify the correct statements from the following.

- A. The linear extension of the state of Maharashtra is 72 degrees 76 degrees east to 81 degrees 54 degrees east.  
B. The east-west length of Maharashtra is 720 km.  
(a) A correct  
(b) B eligible  
(c) AB eligible  
(d) Both are inappropriate

**Q22.** Who was the Chief Minister of Maharashtra when Sindhudurg district was formed?

- (a) Shankardada Chavan  
(b) Babasaheb Bhosale  
(c) a. R. Antule  
(d) Sharad Pawar

**Q23.** Make pairs.

The southernmost taluka of the division

- A. Pune 1. Umarga  
B. Nagpur 2. Chandgad  
C. Aurangabad 3. Sironcha  
D. Amravati 4. Umardhed

**A B C D**

- (a) 1 2 3 4  
(b) 2 3 1 4  
(c) 2 3 4 1  
(d) 1 3 4 2

**Q24.** Identify the lowest peak of the given option.

- (a) Trimbakeshwar  
(b) Taula  
(c) Chikhaldara  
(d) Hanuman

**Q25.** On which route is the Fita Girald Pass?

- (a) Satara - Ratnagiri  
(b) Kolhapur - Kudal  
(c) Mahabaleshwar - Alibag  
(d) Pune - Mahad

**Q26.** Identify the rock system from the given features.

- A. Basic rock of Deccan  
B. Granite, shist, nis are the major rocks  
C. Found in most parts of Chandrapur and Gadchiroli.  
(a) Dharwad  
(b) Kadappa  
(c) Vindhyan  
(d) Archean

**Q27.** Where do the rivers Bhima, Mula and Mutha confluence?

- (a) Ranjangaon  
(b) Shirur  
(c) Pune  
(d) Pimpalgaon

**Q28.** Dimbhe Dam is built on which river?

- (a) Chicken
- (b) Bhima
- (c) Horse
- (d) Indrayani

**Q29.** Choose the right statement.

**A.** The duration of the longest day of the year is 13 hours 13 minutes.

**B.** The longest day of the year is June 21 in the Northern Hemisphere and September 23 in the Southern Hemisphere.

- (a) A correct B is wrong
- (b) A wrong B is correct
- (c) Both are correct
- (d) Both wrong

**Q30.** Identify the following inaccurate statements.

**A.** Weber introduced the concept of continental drift theory

**B.** The concept of the geophysical/ erosion cycle was introduced by Davis

**C.** plate tectonics theory is presented by Morgan.

- (a) Only A
- (b) Only B
- (c) C only
- (d) All wrong

**Q31.** Identify the discontinuity between the inner core and the outer core

- (a) Lehman
- (b) Gutenberg
- (c) Moho
- (d) Conrad



**Q32.** Identify the correct statement

**A.** The latitudinal extension of India is about 32 degrees.

**B.** The longitudinal extension of India is about 29 degrees

- (a) A is right to B is wrong
- (b) B is right and A is wrong
- (c) Both are correct
- (d) Both are wrong

**Q33.** Tropic of Cancer and Indian Standard Time Line passes through which of the following states?

- (a) Madhya Pradesh and Jharkhand
- (b) Madhya Pradesh and Chhattisgarh
- (c) Madhya Pradesh and Uttar Pradesh
- (d) Chhattisgarh and Orissa

**Q34.** Choose the right statement.

**A.** Kaimur hills are in Satpuda mountains.

**B.** Maikal hills are in Vindhya mountains.

- (a) With A
- (b) B is correct
- (c) Both are correct
- (d) Both are wrong

**Q35.** Identify the correct statements.

**A.** Gir, Devani are breeds of cow.

**B.** Jamunapari, Osmanabadi are breeds of

- (a) A is correct
- (b) B is correct
- (c) Both are correct
- (d) Both are wrong

**Q36.** The 1919 Act created the new post of High Commissioner or Indian High Commissioner. Who was the first person to be appointed to this post?

- (a) Bhupendranath Basu
- (b) William Meyer
- (c) Lord Morley
- (d) Sir Simon

**Q37.** Where in the world did the British not implement the ryotwari revenue system?

- (a) Awadh
- (b) Assam
- (c) Mumbai
- (d) Madras

**Q38.** Which Governor General appointed Colonel William Sleeman to deal with the thugs?

- (a) Lord Dalhousie
- (b) Lord William Bentick
- (c) Lord Cornwallis
- (d) Lord Mountbatten

**Q39.** Which of the following was not enacted in 1904?

- (a) Indian University Act
- (b) Calcutta Corporation Act
- (c) Co-operative Credit Union Act
- (d) Ancient Monuments Act

**Q40.** Match the right pair.

- A.** Problem of the East 1. Lokmanya Tilak
- B.** Orayan 2. Krishnaji Khadilkar
- C.** Donrichya tutungatil aamche 101 divas 3. Lord Curzon
- D.** Kichkavadh 4. G. G. Agarkar

- |     | A | B | C | D |
|-----|---|---|---|---|
| (a) | 4 | 3 | 1 | 2 |
| (b) | 4 | 1 | 2 | 3 |
| (c) | 3 | 1 | 4 | 2 |
| (d) | 3 | 4 | 1 | 2 |

**Q41.** Which of the following periodicals Started by Dr. Babasaheb Ambedkar?

- A.** Mooknayak
  - B.** Samata
  - C.** Bahishkrut Bharat
- (a) Only A
  - (b) AB
  - (c) BC
  - (d) ABC

**Q42.** Akhil Bharatiya Kisan Congress (All India Kisan Congress) was established in the year \_\_\_.

- (a) 1920
- (b) 1928
- (c) 1936
- (d) 1940

**Q43.** Jungle Satyagraha, Zenda Satyagraha was being held in places where there were no salt pans in the CDM movement. Jungle Satyagraha was held at which of the following places in Maharashtra?

- (a) With the cat
- (b) Pusad
- (c) Sangamner
- (d) All of the above

**Q44.** The National Economic Program was tabled at the Karachi session of the Congress. Who presided over the session?

- (a) Pandit Jawaharlal Nehru
- (b) Sardar Vallabh Bhai Patel
- (c) Subhash Chandra Bose
- (d) Mahatma Gandhi

**Q45.** Who founded the Brahmo Samaj of India?

- (a) Raja Ram Mohan Roy
- (b) Keshavchandra Sen.
- (c) Devendranath Tagore
- (d) Ishwar Chandra Vidyasagar

**Q46.** For which sector is the "production method" mainly used in estimating the national income?

- (a) Service area
- (b) Quadrant area
- (c) Agriculture and industry sector
- (d) None of these

**Q47.** India's 11th Five Year Plan was based on which concept?

- (a) Brahmananda Vakil
- (b) PURA
- (c) Alan Mann Ashok Rudra
- (d) Mahalanobis

**Q48.** Imperial Bank was nationalized and transformed into SBI Bank on the recommendation of which committee?

- (a) Narasimham Committee
- (b) Gorwala Samiti
- (c) Shivraman Samiti
- (d) None of these

**Q49.** Which of the following schemes has been integrated in the SJGSY?

- A.** Ganga Welfare Scheme (GKY)
  - B.** Integrated Rural Development Program (IRDP)
  - C.** Million Wells Plan (MWS)
  - D.** Supply of improved tools to rural artisans (SITRA)
- (a) All except A
  - (b) All except C
  - (c) All except D
  - (d) All of the above

**Q50.** When was the Integrated Rural Development Program launched?

- (a) October 2, 1984
- (b) October 2, 1980
- (c) 14 November 1984
- (d) 14 November 1980

**Q51.** Identify the correct statements from the following.

- A.** Service tax was introduced in the country from 1st July 1995.
  - B.** Service tax has been merged into GST from 1st July 2017.
- (a) Only A is correct
  - (b) Only B correct
  - (c) Both correct
  - (d) Both are inappropriate

**Q52.** In which year was the Export Processing Region (EPZ) of India started?

- (a) 1950
- (b) 1955
- (c) 1965
- (d) 1975

**Q53.**

- A.** According to UPS, if they are involved in any secondary financial activity within thirty days prior to the survey, they are considered to be employed on a secondary level.
- B.** An individual is expected to work at least 5 hours per day during the survey week to understand employment on CDS basis.
- C.** To understand employment on CWS basis one must work at least two hours in any two days in the pre-survey week.

Identify the correct statements from the above

- (a) Only A
- (b) A and B
- (c) BC
- (d) ABC

**Q54.** Identify the correct statements.

- A.** In the second stage of population transition theory, the rate of population growth is constant.
  - B.** India entered the second stage of population transition theory after 1951
- (a) Only A
  - (b) Only B
  - (c) Both
  - (d) None

**Q55.** Which of the following will result if the Reserve Bank raises the CRR?

- A.** Debt (Credit) will become cheaper and investment will increase
  - B.** Inflation will be curbed
  - C.** Employment will decline
- (a) AC
  - (b) AB
  - (c) BC
  - (d) ABC

**Q56.** Identify the following inaccurate statements.

- A.** Chairman of the Steering Committee of the Constituent Assembly was Dr. Rajendra Prasad  
**B.** Chairman of the Sub-Committee on Fundamental Rights was H. C. Mukherjee  
**C.** Chairman of the Committee on the Supreme Court was S. Varadachari  
 (a) Only A is incorrect  
 (b) Only B is incorrect  
 (c) Only C is incorrect  
 (d) All unfit

**Q57.** Identify the correct statement.

- (a) In January 1949, the Constitution Committee approved the membership of the of India to the Commonwealth of Nations  
 (b) On 24th July 1947, the National Committee adopted the National Flag  
 (c) On 26th January 1949, the Constitution Committee adopted the National Anthem.  
 (d) On January 24, 1950, the incident committee appointed Dr. Rajendra Prasad elected as the first President of India.

**Q58.** Match the following.

- A.** Constitution of Australia 1. Suspension of fundamental rights during an emergency.  
**B.** Constitution of South Africa 2. Concurrent List  
**C.** Constitution of Japan 3. Method of Amendment  
**D.** Constitution of Germany 4. Procedure established by law

- |     |   |   |   |   |
|-----|---|---|---|---|
|     | A | B | C | D |
| (a) | 1 | 2 | 3 | 4 |
| (b) | 2 | 4 | 3 | 1 |
| (c) | 2 | 3 | 4 | 1 |
| (d) | 3 | 2 | 1 | 4 |

**Q59.** Who made the statement that "Indian Federation is a federation of cooperative nature".

- (a) Morris Jones  
 (b) Paul Applebee  
 (c) Dr. Babasaheb Ambedkar  
 (d) Granville Austin

**Q60.** Which of the following does not include the right to life and personal liberty?

- (a) Right to strike  
 (b) Right to go abroad  
 (c) Right to privacy  
 (d) Right to pollution free and good environment

**Q61.** Which article is described by Dr. B. R Ambedkar as the soul and heart of the Constitution?

- (a) Section 14  
 (b) Section 19  
 (c) Section 21  
 (d) Section 32

**Q62.** Match the following

- |                      |  |
|----------------------|--|
| <b>A.</b> Section 39 | 1. Justice in the workplace and humanitarian conditions and maternity assistance |
| <b>B.</b> Section 40 | 2. Right to Work and Education and Government Assistance in Specific Matters     |
| <b>C.</b> Section 41 | 3. Conservation of Gram Panchayat  |
| <b>D.</b> Section 42 | 4. Some principles to be followed by the State                                   |

- |     |   |   |   |   |
|-----|---|---|---|---|
|     | A | B | C | D |
| (a) | 1 | 2 | 3 | 4 |
| (b) | 4 | 3 | 2 | 1 |
| (c) | 4 | 2 | 3 | 1 |
| (d) | 3 | 2 | 1 | 4 |



**Q63.** Apart from the Indian Constitution, which of the following democratic constitutions of the country has fundamental duties?

- (a) Britain
- (b) Japan
- (c) U.S.
- (d) None of these

**Q64.** Identify the correct statements.

- A.** The President of India submits his resignation to the Chief Justice of India
  - B.** The Vice President of India announces his resignation to the President.
- (a) Only A
  - (b) Only B
  - (c) Both correct
  - (d) Both are inappropriate

**Q65.** The impeachment of the President is carried out by which of the following clauses?

- (a) Section 60
- (b) Section 62
- (c) Section 61
- (d) Section 63

**Q66.** Arrange the following states in ascending order in Rajya Sabha seats.

- A.** Chhattisgarh
  - B.** Kerala
  - C.** Madhya Pradesh
  - D.** West Bengal
- (a) A→B→C→D
  - (b) A→C→B→D
  - (c) C→B→A→D
  - (d) C→A→B→D

**Q67.** In which year did the Central Government set up the Government Commission on Centre-State Relations?

- (a) 1981
- (b) 1983
- (c) 1991
- (d) 1993

**Q68.** Identify the correct statement from the following

- A.** According to Article 74 of the Constitution, the Council of Ministers is accountable to the Lok Sabha.
  - B.** According to Article 75 of the Constitution, the Council of Ministers is accountable to Parliament.
  - C.** According to Article 75 of the Constitution, a minister is personally accountable to the President.
- (a) AC
  - (b) BC
  - (c) Only C correct
  - (d) ABC

**Q69.** Identify the correct statements.

- A.** Under Article 163, the Governor has discretionary powers in certain matters.
  - B.** As per Article 167, it is mandatory for the Chief Minister to inform the Governor about all the decisions of the Council of Ministers regarding the affairs of the State.
  - C.** As per Article 165, the Council of Ministers shall be collectively responsible to the State Legislative Assembly.
- (a) AC
  - (b) AB
  - (c) Only C correct
  - (d) ABC

**Q70.** Identify the correct statements from the following.

- A.** The concept of public interest litigation came from the principle of *Actio Popularis*.
  - B.** Public interest litigation originated in Britain.
  - C.** Justice Bhagwati is considered to be the father of public interest litigation in India.
- (a) AC
  - (b) AB
  - (c) BC
  - (d) ABC



**Q71.** In which two countries was the Konkan Shakti military exercise held in October 2021?

- (a) India and Russia
- (b) India and Sri Lanka
- (c) India and USA
- (d) India and Britain

**Q72.** Match the following

- A. Shivrajpur 1. Div
- B. Ghoghal 2. Gujarat
- C. Ushikonda 3. Andaman and Nicobar
- D. Radhanagar 4. Andhra Pradesh

**A B C D**

- (a) 2 4 1 3
- (b) 4 3 2 1
- (c) 4 2 3 1
- (d) 2 1 4 3

**Q73.** When is the National Ganga River Dolphin Day celebrated?

- (a) 5th October
- (b) 10 September
- (c) 5th September
- (d) 10 October

**Q74.** Which state launched the Mission Kavach Kundal campaign to combat the Corona epidemic?

- (a) Uttar Pradesh
- (b) Madhya Pradesh.
- (c) Goa
- (d) None of these

**Q75.** Identify the correct statements from the following

- A. The Global Democracy Index is released by the Economist Intelligence Unit
  - B. In 2020, India was ranked 63rd in this index
- (a) Only A is correct
  - (b) Only B correct
  - (c) Both correct
  - (d) Both are inappropriate

**Q76.** Which of the following cities has topped the Ease of Living Index 2021?

- (a) Bangalore
- (b) Pune
- (c) Mumbai
- (d) Navi Mumbai

**Q77.** Which of the following states recently allowed the export of 'Kala Namak Rice' to Singapore?

- (a) Madhya Pradesh
- (b) Himachal Pradesh
- (c) Uttar Pradesh
- (d) Chhattisgarh

**Q78.** Who is the Chairperson of Maharashtra Women's Commission?

- (a) Meenakshi Mitra
- (b) Rupali Chakankar
- (c) Neelima Sanap
- (d) Mrinalini Fadnavis

**Q79.** Choose the correct statement from the following

- A. In the 17th West Bengal Assembly elections, the Trinamool Congress won 203 seats
  - B. In the same election, the Congress party won 10 seats
- (a) Only A is correct
  - (b) Only B correct
  - (c) Both correct
  - (d) None right

**Q80.** Which city has the honor of being the first 'Water Plus' city in the country in the year 2021?

- (a) Indore
- (b) Bhopal
- (c) Navi Mumbai
- (d) Ahmedabad

**Q81.** Identify the correct statements from the following

**A.** D. M. Mirasdar wrote books on the teachings of Vyankuchi Shikavani, Mazya Bapachi Pend, etc.

**B.** Apart from writing books, he has also written screenplays for many films.

**C.** The popular Marathi movie Duniyadari is based on his book of the same name

- (a) All right
- (b) Only a and b correct
- (c) Only b and c correct
- (d) Only a and c are correct

**Q82.** Sinharaj Adhana is associated with which of the following sports?

- (a) Javelin throw
- (b) Shooting
- (c) High jump
- (d) Long jump

**Q83.** Which of the following cyclones has hit the Indian coast in the year 2020?

- A.** Amphan
- B.** Nature
- C.** Bulbul
- D.** Toukte

- (a) All of the above
- (b) Only a and b
- (c) Only b and c
- (d) Only b and d



**Q84.** There is no elephant reserve in any of the following states

- (a) Odisha
- (b) Kerala
- (c) Assam
- (d) Maharashtra

**Q85.** Which of the following countries is not included in the quad?

- (a) Australia
- (b) Russia
- (c) U.S.
- (d) Japan

**Q86.** Abhas covered a distance in 12 hours. He travelled 6 hours each in two different vehicles. He completed the first half at a speed of 15 km / h and the second half at a speed of 45 km / h. How many distances did Abhas cover during the tour?

- (a) 300 km
- (b) 320 km
- (c) 340 km
- (d) 360 km

**Q87.** Identify the wrong term in a given number series

5 7.5 10 12.5 15 20 22.5

- (a) 10
- (b) 12.5
- (c) 15
- (d) 20

**Q88.** If Ajay and Atul have an average 20 marks. Atul and Salil have an average marks each. Ajay, Atul and Salil have an average 23 marks, what is the average of Ajay and Salil?

- (a) 22
- (b) 23
- (c) 24
- (d) 25

**Q89.** The relationship between the first two numbers is the same as the relationship between the third and fourth numbers. Identify the fourth number by identifying the correct relation

68 : 20 :: 130 : \_\_\_\_?

- (a) 20
- (b) 30
- (c) 40
- (d) 50

**Q90.** If

AG: 16 :: BH: \_\_\_\_?

- (a) 18
- (b) 20
- (c) 22
- (d) 24

**Q91.** If the age ratio of three children is 3 : 6 : 8 and the sum of their ages 8 years ago was 61, what is the sum of their age today?

- (a) 80
- (b) 85
- (c) 90
- (d) 95

**Q92.** Read the following statements carefully and give correct answer considering the given information

1. All mangoes are Guava
2. Some Guava are chikoo
3. No Chikoo is apples

So;

- A. some Chikoos are mangoes
- B. Some Guava are not apples
- C. Some mangoes are not apples

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

**Q93.** If

M% N means M is the brother of N.

M @ N means M is the sister of N.

M \$ N means M is the mother of N.

So, A is the mother of C according to which of the following options

- (a) A% B @ C
- (b) B% A \$ C
- (c) C @ B% A
- (d) C \$ B% A

**Q93.** Which number will replace the question mark in the box?

8	12	20
6	9	15
4	6	?
2	3	5

- (a) 8
- (b) 9
- (c) 10
- (d) 11

**Q94.** Identify the last part of the next alphabet ABC, XWV, EFG,?

- (a) UTS
- (b) TSR
- (c) SRQ
- (d) HIJ

**Q95.** If A, B, C, D, E, F, G, H are sitting around a circular table. A is on the opposite side of H and second to the right of G. C sits immediately to the right of A and opposite to D. F is third to the left of G and opposite to E. So, who is sitting on the opposite side of B?

- (a) D
- (b) G
- (c) E
- (d) A

**Q96.** If Amit and Bhushan complete a task in 8 days. Amit, Bhushan and Chinmay complete the same work in 6 days and Bhushan and Chinmay complete the same work in 12 days, but in how many days will Amit and Chinmay complete the same work?

- (a) 5  
(b) 6  
(c) 8  
(d) 10

**Q97.** Which number will replace the question mark?

2 3 10 15?

- (a) 26  
(b) 24  
(c) 16  
(d) 14

**Q98.** Both Harshal and Kunal walked in opposite directions from their office. They both walked 4 kilometres and turned to their left. Harshal walked 2 km to reach home while Kunal walked 4 km to reach home. So, what is the distance between their houses?

- (a) 11  
(b) 10  
(c) 11.5  
(d) 10.5

**Q99.** Jhelum pointed to the person in the photo and said, "She is the mother-in-law of my father-in-law's daughter's only brother."

- (a) sister-in-law  
(b) mother  
(c) Daughter  
(d) Aunt

**Q100.** Today is Thursday. Vinod took the covacin vaccine today and called for the next dose in 60 days. What will happen if he goes on the right day?

- (a) Thursday  
(b) Wednesday  
(c) Monday  
(d) Sunday



## SOLUTIONS

**S1. Ans.(d)**

**Sol.** Tritium contains one proton and two neutrons.

Tritium is the isotope of hydrogen

**S2. Ans.(a)**

**Sol.** Eka boron - Scandium

Eka Aluminium - Gallium

Eka Silicon - Germanium

**S3. Ans.(a)**

**Sol.** 1000 watts = 1

no. of days in January = 31

1 hour per day =  $400 * 31 = 12400$  watts = 12.4 unit

Cost Rs 4 per unit

total bill =  $4 * 12.4 = 49.6$  Rs

**S4. Ans.(d)**

**Sol.** Zepto is  $10^{-21}$

Zetto means  $10^{21}$

Yocto is  $10^{-24}$

Yotto means  $10^{24}$

**S5. Ans.(c)**

**Sol.** Scientist Herschel discovered infrared rays

**S6. Ans.(c)**

**Sol.** The disease is found in Kottayam, Alappuzha and Ernakulam districts of Kerala.

The disease is caused by the Culex mosquito, so the first two statements are incorrect.

**S7. Ans.(a)**

**Sol.** Fibrin is formed by the combination of thrombin and fibrinogen.

**S8. Ans.(b)**

**Sol.** Normally, red blood cells are shaped like a biconcave.

**S9. Ans.(b)**

**Sol.** Spiders breathe through the respiratory tract, while Larvae, earthworms, and frogs breathe through the skin

**S10. Ans.(d)**

**Sol.** Heparin does not cause blood to clot in the body

**S11. Ans.(c)**

**Sol.** Copeland classified living things into four types. Monera, Protista, plants and animals.

**S12. Ans.(c)**

**Sol.** Chromosomes were found in the form of a pair in Walter and Sutton's nostrils.

Avery and McLeod, McCarthy proved that DNA is the same material in all living things except a few viruses

**S13. Ans.(a)**

**Sol.** The length of one sperm is 60 micrometres. Semen contains a sugar called fructose to provide energy to the sperm.

A sperm crosses a distance of 6.5 m to make exit from the male reproductive system.

**S14. Ans.(c)**

**Sol.** Porifera → Sycon

Cnidaria → Portuguese Man of War

Arthropods → Butterflies

Mollusca → snails

**S15. Ans.(b)**

**Sol.** The above features are of Bryophyta

**S16. Ans.(b)**

**Sol.**  $\sin i / \sin r = n$

n This constant is called the refractive index of the second medium in the context of the first medium.

This is also called Snell's law.

**S17. Ans.(a)**

**Sol.** Ionic compounds are electrical conductors in molten and soluble state

**S18. Ans.(b)**

**Sol.** Ethane → C<sub>2</sub>H<sub>6</sub>

Butane → C<sub>4</sub>H<sub>10</sub>

Propanol → C<sub>3</sub>H<sub>8</sub>O

pentene → C<sub>5</sub>H<sub>10</sub>

**S19. Ans.(d)**

**Sol.** Since the height of the communication satellite is about 36000 km from the surface of the earth, the value of gravity (g) on it will be the lowest i.e., 0.225 m square.

**S20. Ans.(c)**

**Sol.** Fluorine, chlorine, bromine, iodine are halogen.

**S21. Ans.(d)**

**Sol.** The linear range of the state of Maharashtra is 72 degrees 36 degrees east to 80 degrees 54 degrees east.

The east-west length of Maharashtra is 800 km.

**S22. Ans.(c)**

**Sol.** Sindhudurg was formed on 1st May 1981 from Ratnagiri district

**S23. Ans.(b)**

**Sol.** Pune - Chandgad  
Nagpur - Sironcha  
Aurangabad - Umarga  
Amravati - Umardhed

**S24. Ans.(d)**

**Sol.** Trimbakeshwar 1304 m - Nashik district  
Toula - 1231 m - Nashik District  
Chikhaldara - 1118 m - Amravati district  
Hanuman - 1063 m - Dhule District

**S25. Ans.(c)**

**Sol.** Fits Giraldia Ghat is on the Mahabaleshwar-Alibag route.

**S26. Ans.(d)**

**Sol.** The above features are found in the rocks of the Archean system. It has large reserves of iron ore.

**S27. Ans.(a)**

**Sol.** The confluence takes place at Ranjangaon in Pune district.

**S28. Ans.(c)**

**Sol.** There is Dimbhe dam on Ghod river in Ambegaon taluka

**S29. Ans.(a)**

**Sol.** The longest day of the year is June 21 in the Northern Hemisphere and December 22 in the Southern Hemisphere



**S30. Ans.(a)**

**Sol.** Wegner introduced the concept of continental drift theory

**S31. Ans.(a)**

**Sol.** Lehman → inner core and outer core  
Gutenberg → Mantle and core  
Moho → Saima and Mantle  
Conrad → Sial and Saima

**S32. Ans.(b)**

**Sol.** India's latitudinal range is 8 degrees 4 minutes north to 37 degrees 6 minutes. That's about 29 degrees

**S33. Ans.(b)**

**Sol.** Tropic of Cancer passes through the states of Gujarat, Rajasthan, Chhattisgarh, Madhya Pradesh, Jharkhand, West Bengal, Tripura and Mizoram. Standard Time Line passes through the states of Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Orissa and Andhra Pradesh

**S34. Ans.(d)**

**Sol.** The Kaimur hills are in the Vindhya mountains.  
Maikal hills are in Satpuda mountains.

**S35. Ans.(c)**

**Sol.** Both statements are correct

**S36. Ans.(b)**

**Sol.** Sir William Meyer appointed High Commissioner to India for 6 years.

**S37. Ans.(a)**

**Sol.** Kayamdharma/ permanent settlement method - Bengal, Bihar, Orissa  
Rayatwari - Assam, Mumbai, Madras  
Mahalwari - Punjab, Agra, Awad, United Provinces

**S38. Ans.(b)**

**Sol.** Lord William Bentick (1828-35) dealt with thugs during 1829-30. Colonel William Sleeman appointed him

**S39. Ans.(b)**

**Sol.** The Calcutta Corporation Act came into force in 1899

**S40. Ans.(c)**

**Sol.** Problem of the Eas → Lord Curzon

Horayan → Lokmanya Tilak

Donrichya tutungatil aamche 101 divas → G. G. Agarkar

Kichakwadh → Krishnaji Khadilkar

**S41. Ans.(d)**

**Sol.** Dr. Babasaheb Ambedkar started Mooknayak in 1920, Samata and Bahishkrut Bharat in 1927.

**S42. Ans.(c)**

**Sol.** The All-India Kisan Congress was established in 1936 on the initiative of Swami Sahajanand Saraswati.

**S43. Ans.(d)**

**Sol.** Jungle Satyagraha was held at Sangamner, Kalvan, Chirner, Bilashi, Pusad in Maharashtra

**S44. Ans.(b)**

**Sol.** In 1931, the National Economic Program was tabled at the Karachi Convention of the Congress convened under the chairmanship of Sardar Vallabhbhai Patel.

**S45. Ans.(b)**

**Sol.** Raja Ram Mohan Roy - Brahmo Samaj  
Keshavchandra Sen - Brahmo Samaj of India  
Devendranath Tagore - Adi Brahmo Samaj

**S46. Ans.(c)**

**Sol.** The actual method of measurement is used for agriculture and industry.

This indirect method of income is used for the service sector.

**S47. Ans.(b)**

**Sol.** The five-year plan for 2007-12 was approved by former President APJ. It was based on Abdul Kalam's concept of PURA  
(PURA - Providing Urban amenities to Rural Area)

**S48. Ans.(b)**

**Sol.** The Gorwala Committee of 1952 recommended the nationalization of Imperial Bank and other banks

**S49. Ans.(d)**

**Sol.** SJGSY was started in 1999 by amalgamating the following schemes.

Ganga Welfare Scheme GKY

Integrated Rural Development Program IRDP

MWS plan of one million wells

Supply of improved tools to rural artisans SITRA

TRYSEM training of rural youth for self-employment

Development of Women and Children in Rural Areas DWCRA

**S50. Ans.(b)**

**Sol.** The scheme was merged with SJGSY in 1999.

**S51. Ans.(b)**

**Sol.** The service tax was introduced in the country on July 1, 1994.

**S52. Ans.(c)**

**Sol.** The country's first EPZ started at Kandla in Gujarat.

**S53. Ans.(a)**

**Sol.** CDS requires at least 4 hours of work per day. CWS requires working at least one hour on any one day of the week

**S54. Ans.(b)**

**Sol.** In the second phase of the population transition theory, the population grows rapidly

**S55. Ans.(c)**

**Sol.** Debt /credit will become more expensive and investment will decrease

**S56. Ans.(b)**

**Sol.** Chairman of the Sub-Committee on Fundamental Rights J. B. There was grace. H. C. Mukherjee was the chairman of the minority subcommittee

**S57. Ans.(d)**

**Sol.** In May 1949, the Constitution Committee approved the membership of the Commonwealth of India.

On 22 July 1947, the National Committee adopted the National Flag

On 24 January 1950, the Constitution Committee adopted the National Anthem and the National Anthem.

**S58. Ans.(c)**

**Sol.** Constitution of Australia → Concurrent List  
The Constitution of South Africa → Method of Amendment  
Constitution of Japan → Procedure established by law  
Constitution of Germany → suspension of fundamental rights during an emergency.

**S59. Ans.(d)**

**Sol.** Paul Appleby - The Indian system is completely federal.  
Morris Jones - Bargaining Federalism

**S60. Ans.(a)**

**Sol.** The right to strike is not a fundamental right in Article 21

**S61. Ans.(d)**

**Sol.** Article 32 - Right to appeal to Supreme Court against violation of fundamental rights

**S62. Ans.(b)**

**Sol.** Article 39 → Some principles to be followed by the State

Section 40 → Conservation of Gram Panchayat

Article 41 → Right to Work and Education and Government Assistance in Specific Matters

Article 42 → Workplace justice and humanitarian conditions and maternity assistance

**S63. Ans.(b)**

**Sol.** In the Constitution of Japan, fundamental duties are included

**S64. Ans.(b)**

**Sol.** The President of India submits his resignation to the Vice President

**S65. Ans.(c)**

**Sol.** The impeachment proceedings are conducted in accordance with Article 61

**S66. Ans.(a)**

**Sol.** Chhattisgarh - 5 seats  
Kerala - 9 seats  
Madhya Pradesh - 11 seats  
West Bengal - 16 seats  
Maharashtra - 19 seats

**S67. Ans.(b)**

**Sol.** 1983 - Government Commission  
2007 - Poonch Commission





**S68. Ans.(c)**

**Sol.** According to Article 75 of the Constitution, the Council of Ministers is accountable to the Lok Sabha.

The Council of Ministers is not accountable to Parliament.

**S69. Ans.(b)**

**Sol.** As per Article 164, the Council of Ministers will be collectively responsible to the State Legislative Assembly

**S70. Ans.(a)**

Public interest litigation originated in the United States.

**S71. Ans.(d)**

**Sol.** Konkan Shakti Exercise - India and Britain

**S72. Ans.(d)**

**Sol.** Blue flag certified beaches and their states  
Shivrajpur → Gujarat  
Ghoghal → Div  
Ushikonda → Andhra Pradesh  
Radhanagar → Andaman and Nicobar

**S73. Ans.(a)**

**Sol.** October 5 → National Ganga River Dolphin Day (Beginning 2010)

**S74. Ans.(d)**

**Sol.** Mission Kavach Kundal (Maharashtra by 8th October to 14th October)

**S75. Ans.(a)**

In 2020, India was ranked 53rd in the index

**S76. Ans.(a)**

**Sol.** The index was released by the Union Ministry of Housing and Urban Affairs.

1. Bangalore 2. Pune 3. Ahmedabad 4. Chennai

**S77. Ans.(c)**

**Sol.** This rice is also called Buddha rice or Buddha ka mahaprasad

**S78. Ans.(b)**

**Sol.** Rupali Chakankar - Chairperson of Women's Commission

Meenakshi Mitra - Chief Accountant General

Mrinalini Fadnavis - Vice Chancellor of Punyashlok Ahilyabai Holkar University

Neelima Sanap - Member of State Backward Classes Commission (Chairperson - Justice Anand Nirgude)

**S79. Ans.(d)**

**Sol.** The Trinamool Congress won 213 seats  
Congress won 0 seats  
BJP won 77 seats

**S80. Ans.(a)**

**Sol.** Each drop of water is scientifically distributed and high-quality rainwater harvesting is done

**S81. Ans.(b)**

**Sol.** The roaring movie - an intriguing ghost Duniyadari - Based on the book by Suhas Shirwalkar

**S82. Ans.(b)**

**Sol.** Has won a bronze medal in the Paralympic 2021 shooting competition

**S83. Ans.(b)**

**Sol.** Bulbul - in 2019, Toukte - in 2021

**S84. Ans.(d)**

**Sol.** The remaining three states have reserved areas for elephants

**S85. Ans.(b)**

**Sol.** Quad - India, Australia, USA and Japan

**S86. Ans.(d)**

**Sol.** The total duration was 12 hours in which 6 hours travelled at a speed of 15 kilometres per hour and 6 hours at a speed of 45 kilometres per hour.

Distance = time X Speed

First half =  $6 \times 15 = 90$

Lateral =  $6 \times 45 = 270$

$90 + 270 = 360 \text{ km}$

**S87. Ans.(d)**

**Sol.**  $5 \times 1 = 5$

$5 \times 1.5 = 7$

$5 \times 2 = 10$

$5 \times 2.5 = 12.5$

**S88. Ans.(c)**

**Sol.** Total marks of Ajay, Atul and Salil =  $23 \times 3 = 69$

Total marks of Atul and Salil =  $25 \times 2 = 50$

Total marks of Ajay and Atul =  $20 \times 2 = 40$

So, Ajay's marks = 19; Atul's marks = 21; Salil's marks = 29

So, the average marks of Ajay and Salil = 24

**S89. Ans.(b)**

**Sol.**  $4^3 + 4 = 68$   $5^3 + 5 = 130$

$4^2 + 4 = 20$   $5^2 + 5 = 30$

**S90. Ans.(b)**

**Sol.**  $A = 1$

$G = 7$

$A + G = 8 \rightarrow 8 \times 2 = 16$

So  $BH = 20$

**S91. Ans.(b)**

**Sol.** If his current age is considered x

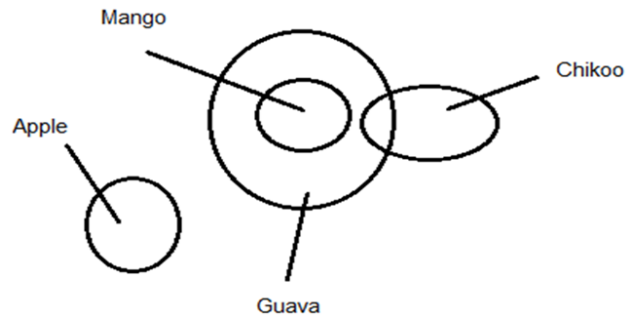
$(3x - 8) + (6x - 8) + (8x - 8) = 61$

$x = 5$

The sum of today's ages =  $15 + 30 + 40 = 85$

**S92. Ans.(c)**

**Sol.**



**S93. Ans.(b)**

**Sol.**  $B\% A \ \$ C = A$  proves to be the mother of C.

**S93. Ans.(c)**

**Sol.**  $2 \times 2; 2 \times 3; 2 \times 4$

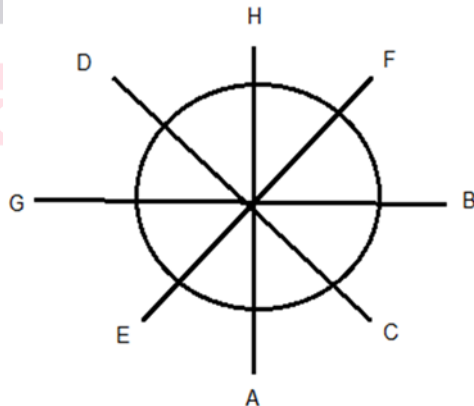
$5 \times 2 = 10$

**S94. Ans.(b)**

**Sol.** ABC then follow the letter below C and then the next three letters

**S95. Ans.(b)**

**Sol.**



**S96. Ans.(c)**

**Sol.** Amit Bhushan and Chinmay work  $1/6$  in a day

Amit and Bhushan work  $1/8$  in a day

Bhushan and Chinmay work  $1/12$  in a day

So, one day work of Amit and Chinmay

$(2 \times 1/6) - (1/8 + 1/12)$

$= 3/24$

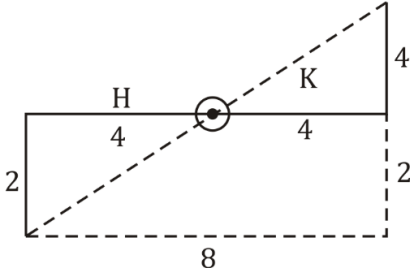
$= 1/8$

**S97. Ans.(a)**

**Sol.**  $1^2 + 1; 2^2 - 1; . 5^2 + 1$

**S98. Ans.(b)**

**Sol.**



**S95. Ans.(b)**

**Sol.** The daughter of Jhelum's father-in-law is her sister-in-law  
sister-in-law 's only brother is Jhelam's husband.  
His mother-in-law is Zelum's mother.

**S100. Ans.(a)**

**Sol.** Thursday as the same blow will come again in 28 days.

