



GOVT. OF NCT OF DELHI
Delhi Subordinate Services Selection Board
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Participant ID	
Participant Name	
Test Center Name	iON Digital Zone iDZ 2 Sector 62
Test Date	13/09/2021
Test Time	12:30 PM - 2:30 PM
Subject	TGT Maths-(Female)

Section : General Ability

Q.1 निम्नलिखित परिदृश्य के लिए कार्रवाई का सबसे तार्किक पाठ्यक्रम चुनें।

कार चलते समय, आपने दुर्घटना से किसी को चोट पहुंचाई। आप _____

- Ans
- A. कार रोकेंगे, प्राथमिक उपचार देंगे और फिर चिकित्सक के पास ले जाएंगे।
 - B. कार रोकेंगे और उससे बहस करने लगेंगे।
 - C. अपनी गाड़ी नहीं रोकेंगे और चले जाएंगे।
 - D. कार रोकेंगे, उसे प्राथमिक उपचार देंगे और फिर उसे वहीं छोड़ देंगे।

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Question ID : 9277596902

Q.2 Study the following information to answer the question given below:

If a person wants to apply for the Indian passport he needs certain documents.

Documents required are:

- 1) Birth certificate
- 2) Aadhar card
- 3) Permanent address proof for more than 10 years.
- 4) Last educational qualification certificate.

If some of the above condition not fulfilled then,

1a) If a person does not have Birth certificate, then he must attach his 10th class certificate.

2a) If a person does not have Aadhar card, his passport will not be processed.

3a) If a person does not have permanent address proof then his parents passport should be attached and then his passport will be processed but will take 2 months extra time to issue the passport.

4) If 1, 2, and 3 not fulfilled and also he failed to show 1a), 2a), and 3a) his passport process will be rejected.

Sumit want to go abroad for further studies. He applied for Indian passport. He attached his parents Indian passports with his passport application since his father working in a private sector, they do not live in a city for more than 4 years. And for his birth certificate, he attached his 10th mark sheet. He also has an Aadhar card. He attached his graduation degree with the application form.

- Ans
- A. His passport will be issued on time.
 - B. His passport will not be processed.
 - C. His passport will be rejected.
 - D. It will take 2 months extra to issue the passport.

Question ID : 9277596903

Q.3 Complete the following letter series:

C, K, E, H, G, E, I, _

Ans A. G

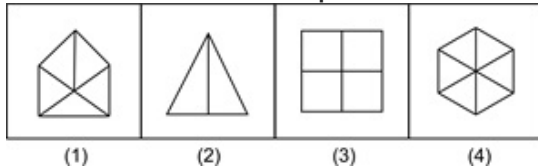
B. B

C. K

D. D

Question ID : 9277596898

Q.4 Out of the given options, three are similar in a certain manner. However, one option is NOT like the other three. Select the option which is different from the rest.



Ans A. Image 4

B. Image 1

C. Image 3

D. Image 2

Question ID : 9277596911

Q.5 There are six persons P, Q, R, S, T, U who have different weights. Only two persons have less weight than T. R has less weight than Q but more than P. Q has a weight less than only two persons. U has more weight than S. How many persons have greater weight than R?

Ans A. Three

B. One

C. Four

D. Two

Question ID : 9277596901

Q.6 Find the missing number in the given series:

1, 3126, 3751, 3876, _, 3906

Ans A. 3901

B. 3903

C. 3905

D. 3899

Question ID : 9277596904

Q.7 At a family gathering, there are 6 members present - A, B, C, D, E, and F. C is the daughter of A, and her brother is D. F is the only child of E, and E is married to C. B is the mother of D. There are two couples present at the gathering. D's both parents are present in the gathering. There are four males in the family.
How is A related to F?

- Ans**
- A. Paternal grandmother
 - B. Paternal grandfather
 - C. Maternal grandfather
 - D. Maternal grandmother

Question ID : 9277596907

Q.8 Out of the given options, three are similar in a certain manner. However, one option is NOT like the other three. Select the option which is different from the rest.

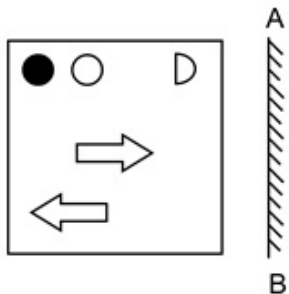
- Ans**
- A. Bharat Ratna
 - B. Nobel Prize
 - C. Vir Chakra
 - D. Padma Bhushan

Question ID : 9277596896

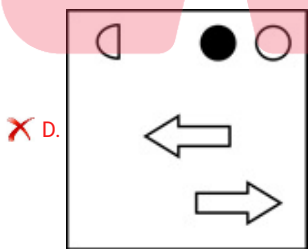
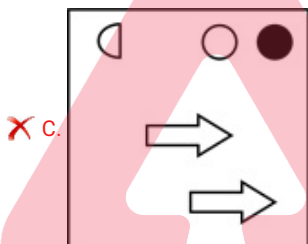
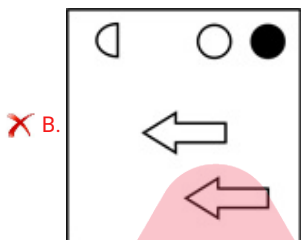
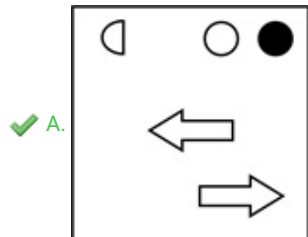


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Q.9 If a mirror is placed on the line AB, then which of the answer figure is the correct mirror image of the given figure?



Ans



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Question ID : 9277596912

Q.10 Out of the given options, three are similar in a certain manner. However, one option is NOT like the other three. Select the option which is different from the rest.

Ans ✓ A. SVZD

✗ B. XAEJ

✗ C. CFJO

✗ D. LOSX

Question ID : 9277596897

Q.11 Six girls, Kusum, Chanda, Preeti, Simran, Priya, and Aarti, get the chance to become the monitor of their class for one day as per rotation policy. Days are from Monday to Saturday. Chanda becomes the monitor of the class four days after Preeti. One person became the monitor after Kusum but before Simran, also at least three people became monitor before Kusum. Who is the monitor of the class on Monday?

- Ans
- A. Chanda
 - B. Preeti
 - C. Simran
 - D. Kusum

Question ID : 9277596908

Q.12 Study the following information carefully to answer the given question: C % 4 G7 \$ Q 6 5 + 3 & L S # T 7 1 @
How many such numbers are there in the above arrangement each of which are immediately preceded by a number and followed by a symbol?

- Ans
- A. Three
 - B. One
 - C. Four
 - D. Two

Question ID : 9277596905

Q.13 Find the wrong term in the given series.
1215, 1216, 1220, 1247, 1603

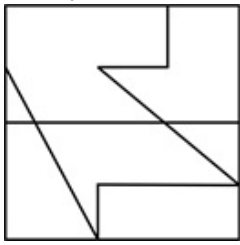
- Ans
- A. 1603
 - B. 1247
 - C. 1216
 - D. 1220

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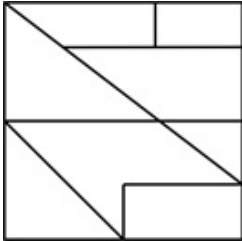
Question ID : 9277596899

Q.14 From the given answer figures, select the one in which the question figure is hidden/embedded.

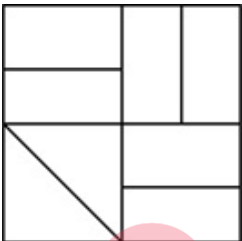


Ans

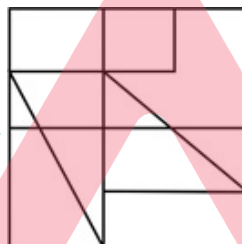
A.



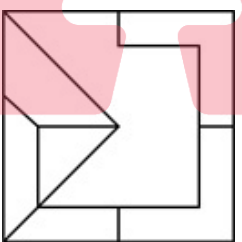
B.



C.



D.



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Question ID : 9277596910

Q.15 How many such pairs of letters are there in the word 'PROMOTION', each of which has as many letters between them in the word (both forward and backward direction) as they have between them in the English Alphabet ?

Ans A. Two

B. One

C. Four

D. Three

Question ID : 9277596906

Q.16 There is a leakage at the bottom of the tank which can empty the tank in 60 hours. Pipe A can fill the tank in 10 hours while pipe B can empty the tank in 40 hours. If pipe A alone opened till 3/4th tank gets filled and then pipe B is opened. In how many hours tank gets completely filled?

- Ans
- A. 89/5 hours
 - B. 74/7 hours
 - C. 93/5 hours
 - D. 93/7 hours

Question ID : 9277596909

Q.17 In the question one statement is given, followed by two conclusions, I and II. You have to consider the statement to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statement.

Statement:

$Z < N$; $F \geq N$; $F \leq K$

Conclusions:

I. $K = N$

II. $K > Z$

- Ans
- A. Either conclusion I or II follow
 - B. Only conclusion II follows
 - C. Both conclusion I and II follow
 - D. Only conclusion I follows

Question ID : 9277596900

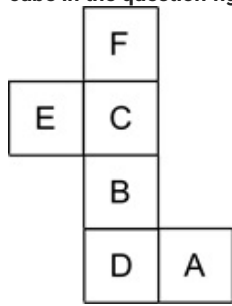
Q.18 Select the option that is related to the third term on the same basis as the second term is related to the first term.

CEHL : BDGK :: EGJN : ?

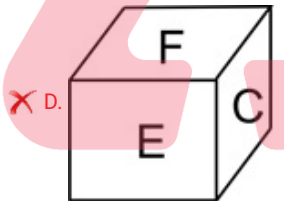
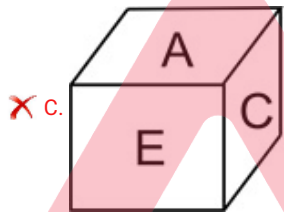
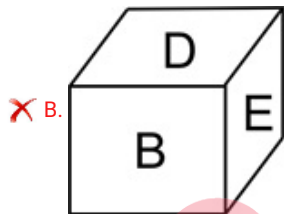
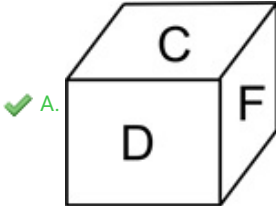
- Ans
- A. DFJM
 - B. CFIM
 - C. DFIM
 - D. CGIM

Question ID : 9277596895

Q.19 Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



Ans



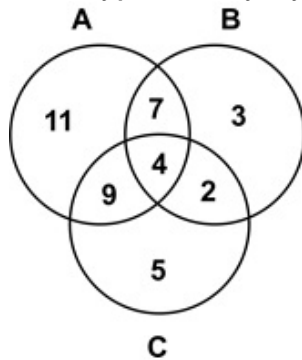
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Question ID : 9277596914

Q.20 In the following Venn Diagram, 'Group A' represents those who study 'Arts', 'Group B' represents those who study 'Commerce' and 'Group C' represents those 'Science'. The number given in the diagram represents the member of persons of that particular category.

How many persons study only Arts or only Commerce?



- Ans
- A. 21
 - B. 7
 - C. 14
 - D. 11

Question ID : 9277596913

Section : General Awareness

Q.1 When did Gandhiji start the 'Quit India Movement'?

- Ans
- A. July 1942
 - B. August 1949
 - C. August 1945
 - D. August 1942

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Question ID : 9277596918

Q.2 ओजोन परत वायुमंडल के निम्नलिखित में से किस क्षेत्र में मौजूद है?

- Ans
- A. मध्यमण्डल
 - B. समतापमण्डल
 - C. बाह्यमण्डल
 - D. तापमण्डल

Question ID : 9277596925

Q.3 Where is the headquarter of WEF (World Economic Forum)?

- Ans
- A. Manila
 - B. Geneva
 - C. New York
 - D. Washington DC

Question ID : 9277596932

Q.4 If 'B' is the radial outward velocity of galaxy, 'D' is the distance of galaxy from Earth, and 'H' is the Hubble constant. Then, $B = ?$

- Ans
- A. $H + D$
 - B. $H \div D$
 - C. $H - D$
 - D. $H \times D$

Question ID : 9277596929

Q.5 If Red Litmus changes to Blue, then what is the nature of the substances?

- Ans
- A. Neutral
 - B. hydrophobic
 - C. Basic
 - D. Acidic

Question ID : 9277596928

Q.6 In which among the following cities, headquarters of 'International Union for Conservation of Nature and Natural Resources' is located?

- Ans
- A. Washington DC
 - B. Vienna
 - C. Gland
 - D. London

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Question ID : 9277596926

Q.7 Who is the author of 'A Dangerous Place'?

- Ans
- A. D.P.Moynihan
 - B. Leo Tolstoy
 - C. Lewis Carrol
 - D. Mark Twain

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Question ID : 9277596933

Q.8 निम्नलिखित में से कौन नीति आयोग के उद्देश्यों में से एक है?

- Ans
- A. अच्छे अंतरराष्ट्रीय संबंधों की परिकल्पना को साझा करना
 - B. चुनाव आयोग से संबंधित परिकल्पना को साझा करना
 - C. केंद्रीय उन्मुख विकास की परिकल्पना को साझा करना
 - D. राज्य के साथ राष्ट्रीय विकास की परिकल्पना को साझा करना

Question ID : 9277596919

Q.9 From which of the following countries, Rugby originated?

- Ans A. India
 B. New Zealand
 C. England
 D. Australia

Question ID : 9277596921

Q.10 According to Indian mythology, who sung Shiva Tandava Stotra?

- Ans A. Kumbhkarana
 B. Vibhishana
 C. Ravana
 D. Tarakasura

Question ID : 9277596924

Q.11 From which of the following states, 'Kathakali' dance has originated?

- Ans A. Uttar Pradesh
 B. Kerala
 C. Maharashtra
 D. Bihar

Question ID : 9277596923

Q.12 Who founded 'Brahmo Samaj'?

- Ans A. Aurobindo Ghose
 B. Surendranath Banerjee
 C. Raja Rammohan Roy
 D. Swami Vivekananda

Question ID : 9277596917

Q.13 Who has written 'Geetanjali'?

- Ans A. Vishnu Sharma
 B. M.K.Gandhi
 C. Rabindra Nath Tagore
 D. Kalidas

Question ID : 9277596934

Q.14 Who among the following has discovered Radium?

- Ans A. Michael Faraday
 B. Enrico Fermi
 C. Henry Becquerel
 D. Marie and Pierre Curie

Question ID : 9277596930

Q.15 Which among the following organisation has successfully conducted the third long-duration hot test of liquid fuel-powered, Vikas Engine for the Gaganyaan Program?

- Ans
- A. JAXA(Japan Aerospace Exploration Agency)
 - B. CNSA(China National Space Administration)
 - C. NASA(National Aeronautics and Space Administration)
 - D. ISRO(Indian Space Research Organisation)

Question ID : 9277596916

Q.16 Where is the Central office of the RBI (Reserve Bank of India)?

- Ans
- A. Pune
 - B. Mumbai
 - C. Kolkata
 - D. Delhi

Question ID : 9277596927

Q.17 Who has discovered X-Rays?

- Ans
- A. Chadwick
 - B. Roentgen
 - C. Anderson
 - D. Becquerel

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Question ID : 9277596931

Q.18 By which amendment act of the constitution, right to property has been taken away from Fundamental Rights?

- Ans
- A. 44th Amendment
 - B. 55th Amendment
 - C. 54th Amendment
 - D. 42nd Amendment

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Question ID : 9277596920

Q.19 Who among the following is known as the 'Flying Sikh'?

- Ans
- A. Mo Farah
 - B. Milkha Singh
 - C. Usain Bolt
 - D. Jesse Owens

Question ID : 9277596922

Q.20 किसने खाड़ी क्षेत्र में भारतीय जहाजों की सुरक्षा के लिए ऑपरेशन संकल्प शुरू किया है?

- Ans A. भारतीय नौसेना
 B. भारतीय वायु सेना
 C. केन्द्रीय रिज़र्व पुलिस बल
 D. भारतीय सेना

Question ID : 9277596915

Section : Arithmetic Ability

Q.1 The sum of the ages of Sourav, Gourav and Vaskar is 102 years. The ratio of their ages 12 years ago 1 : 2 : 3. What is the present age of Vaskar?

- Ans A. 45 years
 B. 33 years
 C. 44 years
 D. 38 years

Question ID : 9277596941

Q.2 Aman, Bittu, Chaman and Dinesh are 4 members in a family. The age of Aman is $\frac{2}{3}$ rd of the average age of a family. The age of Bittu is 80% of the age of Aman. The age of Dinesh is 150% more than the age of Bittu. Find the age of Aman if the difference between the age of Chaman and Dinesh is 5 years.

- Ans A. 20 years
 B. 25 years
 C. 55 years
 D. 50 years

Question ID : 9277596945

Q.3 Two trains A and B are running in opposite directions. Speed of A is thrice as speed of B and they cross each other in 56 seconds. If the train A passes a standing man in 54 seconds then, what is the time taken by train B to cross the same person?

- Ans A. 62 sec
 B. 68 sec
 C. 54 sec
 D. 45 sec

Question ID : 9277596952

Q.4 P, Q and R started a business by investing Rs. 4050, Rs. 4500 and Rs. 6000 respectively. After 6 months R withdrew Rs. 1500 while P invested Rs. 4500 more. In annual profit of Rs. 6420, the share of P will exceed that of R by:

- Ans A. Rs. 220
 B. Rs. 320
 C. Rs. 350
 D. Rs. 420

Question ID : 9277596946

Q.5 A fruit seller had some mangoes. He sells 45% of them and still has 550 mangoes. Find the number of mangoes he initially had.

- Ans
- A. 1600
 - B. 1200
 - C. 1000
 - D. 900

Question ID : 9277596942

Q.6 If the ratio between Simple interest of 2 years and the Difference between Compound interest to simple interest of 2 years is 20 : 1. Find out the rate of interest per annum.

- Ans
- A. 5%
 - B. 25%
 - C. 12.5%
 - D. 10%

Question ID : 9277596949

Q.7 The average of five consecutive numbers is 57. Find the difference between the highest and lowest number among these 5 numbers.

- Ans
- A. 2
 - B. 3
 - C. 8
 - D. 4

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Question ID : 9277596944

Q.8 The graph show the number of units produced and number of units sold by different companies.
Find the total number of units unsold by all the companies.



- Ans
- A. 1200
 - B. 900
 - C. 1100
 - D. 1000

Question ID : 9277596954

Q.9 The cost price of a packet milk is Rs. 30 per litre but a trader is labelling it as Rs. 40 per litre. Also he mixes 50% water and gives a 30% discount. Find the Profit Percentage of trader.

- Ans A. 25%
 B. 45%
 C. 50%
 D. 40%

Question ID : 9277596947

Q.10 What approximate value will come in the place of question mark(?) in the following question?

$$497.01 + 12.97 - 55.03 = ? \% \text{ of } 500$$

- Ans A. 34
 B. 91
 C. 81
 D. 19

Question ID : 9277596936

Q.11 Six bells commence tolling together and toll at intervals of 3, 4, 5, 6, 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together?

- Ans A. 31
 B. 15
 C. 16
 D. 30

Question ID : 9277596938

Q.12 What will come in the place of question mark(?) in the following question?

$$54\% \text{ of } 700 + 25\% \text{ of } 616 = 39\% \text{ of } 1300 + ?$$

- Ans A. 65
 B. 35
 C. 25
 D. 15

Question ID : 9277596935

Q.13 The population of a town increased from 75,000 to 1,00,00 in a decade. The percent increase of population in a decade is:

- Ans A. 30%
 B. 20%
 C. 25%
 D. 33.33%

Question ID : 9277596943

Q.14 The slant height of a right circular cone is 5 m and its height is 4 m. Find its curved surface area.

- Ans A. 15π sq. m
 B. 30π sq. m
 C. 20π sq. m
 D. 25π sq. m

Question ID : 9277596950

Q.15 A trader buys goods at a 15% discount on the label price. If he wants to make a profit of 20% after allowing a discount of 40%. By what percent should his marked price be greater than the original label price?

- Ans A. 50%
 B. 70%
 C. 40%
 D. 60%

Question ID : 9277596948

Q.16 The present ages of A and B are in the ratio 7 : 9. After 'x' years the ratio of their ages becomes 4 : 5 and 'x + 6' years ago the ratio of their ages was 18 : 25. Find the sum of their ages after 'x' years.

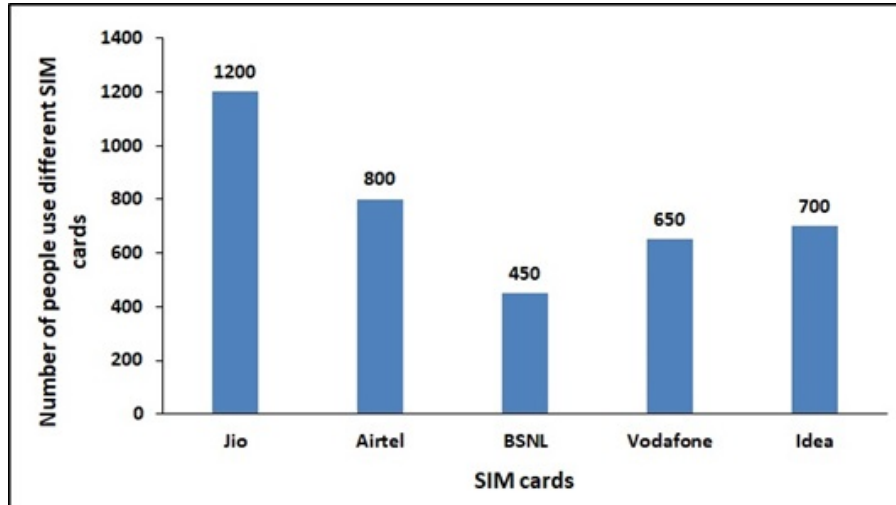
- Ans A. 120 years
 B. 130 years
 C. 126 years
 D. 136 years

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Question ID : 9277596940

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Q.17 The bar graph represents the number of people in a district who use different SIM cards. If ratio of Male and female in Jio SIM and Vodafone SIM is 5:3 and 6:7 respectively, then find the number of females who use Jio SIM is what percent more/less than the number of males who use Vodafone SIM.



- Ans
- A. 45%
 - B. 55%
 - C. 50%
 - D. 40%

Question ID : 9277596953

Q.18 What will come in the place of question mark(?) in the following question?

$$(3/7) \div (4/3) \times (7/9) \times 9 \div 3 = ?$$

- Ans
- A. 0.5
 - B. 0.75
 - C. 1.25
 - D. 1

Question ID : 9277596937

Q.19 Let N be the greatest number that will divide 1205, 4265 and 6705, leaving the same remainder in each case. Then sum of the digits in N is:

- Ans
- A. 4
 - B. 2
 - C. 3
 - D. 1

Question ID : 9277596939

Q.20 A tank is filled by a pipe in 4 hours. It is observed that due to leakage the tank is filled in $5\frac{1}{3}$ hours. Find the time taken by leakage to drain out all the water of the tank.

- Ans
- A. 13 hours
 - B. 16 hours
 - C. 15 hours
 - D. 12 hours

Question ID : 9277596951

Section : General English

Q.1 The sentence below has been divided into three parts. Select the part of the sentence that has an error. If the sentence has no error, select the option 'No Error'.

Pass out of an elite institution / and making a distinctive fashion / statement is a double wallop.

- Ans
- A. Pass out of an elite institution
 - B. statement is a double wallop.
 - C. and making a distinctive fashion
 - D. No Error

Question ID : 9277596956

Q.2 Some parts of a sentence have been jumbled up, and labelled P, Q, R and S. Select the option that gives the correct sequence in which these parts can be rearranged to form a meaningful and grammatically correct sentence.

Mandarin; simplified Chinese:

P. 'speech of officials' is a group of Sinitic

Q. which includes the Beijing dialect, the basis

R. (Chinese) language natively spoken across

S. most of northern and southwestern China

of the phonology of Standard Chinese.

- Ans
- A. SQRP
 - B. QPSR
 - C. PRSQ
 - D. SQPR

Question ID : 9277596961

Q.3 Select the most appropriate meaning of the given idiom.

Buckle down

- Ans
- A. To reduce weight.
 - B. To slow down
 - C. To hold your stance.
 - D. To start to work hard

Question ID : 9277596968

Q.4 Select the word that is opposite in meaning (ANTONYM) to the word given below.

PASSIVE

- Ans A. SLANDEROUS
 B. IMPATIENT
 C. HARMONY
 D. APATHETIC

Question ID : 9277596966

Q.5 Select the word that is similar in meaning (SYNONYM) to the word given below.

INSULAR

- Ans A. UNBIASED
 B. DETACHED
 C. CONTINENT
 D. PENINSULAR

Question ID : 9277596964

Q.6 Four words are given, out of which only one word is spelt correctly. Choose the correctly spelt word.

- Ans A. SEVENTIETH
 B. SEVENTITH
 C. SEVENTEITH
 D. SEVENTETH

Question ID : 9277596963

Q.7 Select the most appropriate meaning of the given proverb.

A word to the wise.

- Ans A. To have a quick talk.
 B. A wise man speaks less.
 C. A good piece of advice.
 D. A two minute guest speech.

Question ID : 9277596969

Q.8 The sentence below has been divided into three parts. Select the part of the sentence that has an error. If the sentence has no error, select the option 'No Error'.

This is abundantly declared in / their official documents and by / there acknowledgment representatives.

Ans A. there acknowledgment representatives.

B. No Error

C.

This is abundantly declared in

D. their official documents and by

Question ID : 9277596955

Q.9 Fill in the blank with the most appropriate choice.

Beneath the postmodern gloss of its bright shiny surfaces lies a cleverly _____ core of rational modernity

Ans A. jilted

B. blemished

C. beseeched

D. disguised

Question ID : 9277596959

Q.10 Choose the right synonym for "barbaric"

Ans A. Kind

B. Civilized

C. Barber-like

D. Savage

TEACHERS

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Question ID : 9277596957

Q.11 The sentences below are not complete. There are four options for each question. Choose the best word to complete the sentence.

A decent living politician is one who is not actively corrupt, rude, _____, vile or idiotic.

Ans A. pleasant

B. delightful

C. amiable

D. obnoxious

Question ID : 9277596960

Q.12 The question below consist of a set of labelled sentences. Out of four options given, select the most logical order of the sentences which form a paragraph.

The UN was established after World War II with the aim of preventing future wars, succeeding the ineffective League of Nations.

P. The Charter was adopted on 25 June 1945 and took effect on 24 October 1945, when the UN began operations.

Q. On 25 April 1945, 50 governments met in San Francisco for a conference and started drafting the UN Charter.

R. It also ensures delivering humanitarian aid, promoting sustainable development, and upholding international law.

S. Pursuant to the Charter, the organization's objectives include maintaining international peace and security, protecting human rights.

At its founding, the UN had 51 member states; with the addition of South Sudan in 2011, membership is now 193, representing almost all of the world's sovereign states.

Ans A. SQRP

B. QPSR

C. SRQP

D. PQRS

Question ID : 9277596962

Q.13 Select the most appropriate meaning for the word given below.

Cache

Ans A. A large bedroom for a number of people in a school or institution.

B. A collection of items of the same type stored in a hidden or inaccessible place.

C. A Large container.

D. A large burial ground, especially one not in a churchyard.

Question ID : 9277596967

Q.14 Select the word that is similar in meaning (SYNONYM) to the word given below.

SALACIOUS

Ans A.
CLEAN

B.
MORAL

C.
CONSPIRACY

D. OBSCENE

Question ID : 9277596965

Q.15 Select the word segment that substitutes (replaces) the bracketed word segment correctly and completes the sentence meaningfully. Select the option 'no correction required' if the sentence is correct as given.

The goalie (returned), with head bowed in contrition, as the ref showed him the yellow card.

- Ans A. retreated
 B. No correction required
 C. went back
 D. retrenched

Question ID : 9277596958

Comprehension:

A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives.

Karl Otto Lagerfeld was a German creative director, fashion designer, artist, photographer, and caricaturist who lived in Paris. He was known as the creative director of the French fashion house Chanel, a position held from 1983 until his death, and was also creative director of the Italian fur and leather goods fashion house Fendi, and of his own eponymous fashion label. He collaborated on a variety of fashion and art-related projects. Lagerfeld was recognized for his signature white hair, black sunglasses, fingerless gloves, and high, starched, detachable collars. Lagerfeld was known to misrepresent his birth year, claiming to be younger than his actual age, and to misrepresent his parents' background. For example, he claimed that he was born in 1938 to "Elisabeth of Germany" and Otto Ludwig Lagerfeldt from Sweden. These claims have been conclusively proven to be false, as his father was from Hamburg and spent his entire life in Germany, with no Swedish connection. There is also no evidence that his mother Elisabeth Bahlmann, the daughter of a middle-class local politician, called herself "Elisabeth of Germany". He was known to insist that no one knows his real birth date. In an interview on French television in February 2009, Lagerfeld said that he was "born neither in 1933 nor 1938".

SubQuestion No : 16

Q.16 Two assertions are given below (A & B) on the basis of your understanding of the passage, which one of the assertions is correct?

- A. His claims of being born in 1938 to Elisabeth of Germany and Otto Ludwig Lagerfeldt from Sweden are false.
B. Karl Lagerfeld was known as the creative director of the French fashion house Fendi, a position he held from 1983 until his death.

- Ans A. Both are incorrect.
 B. Both are correct.
 C. A is correct and B is incorrect
 D. A is incorrect and B is correct

Question ID : 9277596973

Comprehension:

A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives.

Karl Otto Lagerfeld was a German creative director, fashion designer, artist, photographer, and caricaturist who lived in Paris. He was known as the creative director of the French fashion house Chanel, a position held from 1983 until his death, and was also creative director of the Italian fur and leather goods fashion house Fendi, and of his own eponymous fashion label. He collaborated on a variety of fashion and art-related projects. Lagerfeld was recognized for his signature white hair, black sunglasses, fingerless gloves, and high, starched, detachable collars. Lagerfeld was known to misrepresent his birth year, claiming to be younger than his actual age, and to misrepresent his parents' background. For example, he claimed that he was born in 1938 to "Elisabeth of Germany" and Otto Ludwig Lagerfeldt from Sweden. These claims have been conclusively proven to be false, as his father was from Hamburg and spent his entire life in Germany, with no Swedish connection. There is also no evidence that his mother Elisabeth Bahlmann, the daughter of a middle-class local politician, called herself "Elisabeth of Germany". He was known to insist that no one knows his real birth date. In an interview on French television in February 2009, Lagerfeld said that he was "born neither in 1933 nor 1938".

SubQuestion No : 17

Q.17 What is the meaning of 'eponymous' from the given passage?

- Ans A. Something that works on its own.
- B. One for whom or which something is or is believed to be named.
- C. Collaborate with another company
- D. Something that causes confusion.

Question ID : 9277596975

Comprehension:

A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives.

Karl Otto Lagerfeld was a German creative director, fashion designer, artist, photographer, and caricaturist who lived in Paris. He was known as the creative director of the French fashion house Chanel, a position held from 1983 until his death, and was also creative director of the Italian fur and leather goods fashion house Fendi, and of his own eponymous fashion label. He collaborated on a variety of fashion and art-related projects. Lagerfeld was recognized for his signature white hair, black sunglasses, fingerless gloves, and high, starched, detachable collars. Lagerfeld was known to misrepresent his birth year, claiming to be younger than his actual age, and to misrepresent his parents' background. For example, he claimed that he was born in 1938 to "Elisabeth of Germany" and Otto Ludwig Lagerfeldt from Sweden. These claims have been conclusively proven to be false, as his father was from Hamburg and spent his entire life in Germany, with no Swedish connection. There is also no evidence that his mother Elisabeth Bahlmann, the daughter of a middle-class local politician, called herself "Elisabeth of Germany". He was known to insist that no one knows his real birth date. In an interview on French television in February 2009, Lagerfeld said that he was "born neither in 1933 nor 1938".

SubQuestion No : 18

Q.18 What is the meaning of 'Caricaturist' from the given passage?

- Ans A. Someone who exaggerates.
- B. A person who studies different cultures.
- C. The art of creating representations.
- D. A person who cultures fabrics.

Question ID : 9277596971

Comprehension:

A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives.

Karl Otto Lagerfeld was a German creative director, fashion designer, artist, photographer, and caricaturist who lived in Paris. He was known as the creative director of the French fashion house Chanel, a position held from 1983 until his death, and was also creative director of the Italian fur and leather goods fashion house Fendi, and of his own eponymous fashion label. He collaborated on a variety of fashion and art-related projects. Lagerfeld was recognized for his signature white hair, black sunglasses, fingerless gloves, and high, starched, detachable collars. Lagerfeld was known to misrepresent his birth year, claiming to be younger than his actual age, and to misrepresent his parents' background. For example, he claimed that he was born in 1938 to "Elisabeth of Germany" and Otto Ludwig Lagerfeldt from Sweden. These claims have been conclusively proven to be false, as his father was from Hamburg and spent his entire life in Germany, with no Swedish connection. There is also no evidence that his mother Elisabeth Bahlmann, the daughter of a middle-class local politician, called herself "Elisabeth of Germany". He was known to insist that no one knows his real birth date. In an interview on French television in February 2009, Lagerfeld said that he was "born neither in 1933 nor 1938".

SubQuestion No : 19

Q.19 Karl Lagerfeld was not recognized for which of the following?

- Ans A. Gold chains
 B. Fingerless gloves
 C. Signature white hair
 D. Detachable collars

Question ID : 9277596974

Comprehension:

A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives.

Karl Otto Lagerfeld was a German creative director, fashion designer, artist, photographer, and caricaturist who lived in Paris. He was known as the creative director of the French fashion house Chanel, a position held from 1983 until his death, and was also creative director of the Italian fur and leather goods fashion house Fendi, and of his own eponymous fashion label. He collaborated on a variety of fashion and art-related projects. Lagerfeld was recognized for his signature white hair, black sunglasses, fingerless gloves, and high, starched, detachable collars. Lagerfeld was known to misrepresent his birth year, claiming to be younger than his actual age, and to misrepresent his parents' background. For example, he claimed that he was born in 1938 to "Elisabeth of Germany" and Otto Ludwig Lagerfeldt from Sweden. These claims have been conclusively proven to be false, as his father was from Hamburg and spent his entire life in Germany, with no Swedish connection. There is also no evidence that his mother Elisabeth Bahlmann, the daughter of a middle-class local politician, called herself "Elisabeth of Germany". He was known to insist that no one knows his real birth date. In an interview on French television in February 2009, Lagerfeld said that he was "born neither in 1933 nor 1938".

SubQuestion No : 20

Q.20 Two assertions are given below (A & B) on the basis of your understanding of the passage, which one of the assertions is correct?

A. Karl Otto Lagerfeld was a German creative director, fashion designer, artist, photographer, and caricaturist who was born in London.

B. He was known to insist that no one knows his real birth date.

- Ans A. A is incorrect and B is correct
 B. A is correct and B is incorrect
 C. Both are incorrect.
 D. Both are correct.

Question ID : 9277596972

Section : General Hindi

Q.1 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो शुद्ध शब्द का सही विकल्प है।

- Ans A. परितोशिक
 B. परितोसिक
 C. पारितोषिक
 D. पारीतोषिक

Question ID : 9277596980

Q.2 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस सही विकल्प का चयन करें जो दिए गए शब्द के सही अर्थ का उचित विकल्प नहीं है।
पंडित

- Ans A. विज्ञ
 B. वल्लभ
 C. पारंगत
 D. मनीषी

Question ID : 9277596979

Q.3 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस सही विकल्प का चयन करें जो दिए गए शब्द-युग्म के सही अर्थ का उचित विकल्प हो।
स्वेद-श्वेत

- Ans A. पकवान-फल
 B. मस्तक-उजला
 C. पसीना-हल
 D. पसीना-उजला

Question ID : 9277596981

Q.4 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए वाक्य के काल का सही विकल्प हो।
राधा ने पौधों को पानी दिया है।

- Ans A. सामान्य भूतकाल
 B. आसन्न भूतकाल
 C. संदिग्ध भूतकाल
 D. अपूर्ण भूतकाल

Question ID : 9277596983

Q.5 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए लोकोक्ति का सही अर्थ वाला विकल्प है।

गाँव का जोगी जोगना, आन गाँव का सिद्ध -

- Ans
- A. पास की वस्तु को दूर खोजना
 - B. अपने स्थान पर सम्मान नहीं होता
 - C. अधिक परिश्रम से कम लाभ
 - D. अवसरवादी होना

Question ID : 9277596988

Q.6 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए वाक्य के लिए वृत्ति के भेद का सबसे अच्छा विकल्प है।

संभव है आज मेहमान घर आए।

- Ans
- A. संकेतार्थ
 - B. संदेहार्थ
 - C. संभावनार्थ
 - D. विध्यर्थ

Question ID : 9277596984

Q.7 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो सही वाक्य भेद का विकल्प हो।
मैंने उसे चुप रहने के लिए कहा, लेकिन उसने मेरी बात नहीं सुनी।

- Ans
- A. मिश्र वाक्य
 - B. संयुक्त वाक्य
 - C. विधानवाचक वाक्य
 - D. सरल वाक्य

Question ID : 9277596985

Q.8 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दी गई मुहावरे का सही अर्थ वाला विकल्प है।

पौ बारह होना -

- Ans
- A. व्यर्थ समय गंवाना
 - B. धोखा देना
 - C. संदेह होना
 - D. अत्यधिक लाभ होना

Question ID : 9277596990

Q.9 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो देशज शब्द का सही विकल्प हो।

- Ans
- A. मौसम
 - B. लोटा
 - C. शादी
 - D. दंगल

Question ID : 9277596976

Q.10 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दी गई मुहावरे का सही अर्थ वाला विकल्प है।
लोहा लेना -

- Ans A. कीमती सामान खरीदना
 B. लज्जित होना
 C. हरा देना
 D. युद्ध करना

Question ID : 9277596989

Q.11 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो कोष्ठक में दिए गए शब्द के अनुसार विशेषण के भेद वाला विकल्प हो।
मेरे लिए (थोडा सा) खाना लेकर आओ।

- Ans A. परिमाणवाचक
 B. सार्वनामिक
 C. अनिश्चित संख्यावाचक
 D. निश्चित संख्यावाचक

Question ID : 9277596977

Q.12 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो विराम चिह्न युक्त वाक्य का सही विकल्प हो।

- Ans A. कल रविवार है; छुट्टी का दिन है; आराम मिलेगा?
 B. कल रविवार है छुट्टी का दिन है आराम मिलेगा।
 C. कल रविवार है; छुट्टी का दिन है; आराम मिलेगा।
 D. कल रविवार है-छुट्टी का दिन है-आराम मिलेगा।

TEACHERS

Question ID : 9277596987

Q.13 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए वाक्य के लिए पक्ष के भेद का सबसे अच्छा विकल्प है।
अब तक हम काफी खाना बना चुके हैं।

- Ans A. प्रगतिद्योतक
 B. सातप्यद्योतक
 C. पूर्णताद्योतक
 D. निल्यताद्योतक

Question ID : 9277596986

Q.14 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस सही विकल्प का चयन करें जो रिक्त स्थान के लिए उपयुक्त शब्द का सही विकल्प है।
हताशा, निराशा और असफलता जैसे शब्द हमारे जीवन के शब्दकोष में _____ होने चाहिए।

- Ans A. ज़रूर
 B. शुद्ध
 C. सदा
 D. नहीं

Question ID : 9277596982

Q.15 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो भाववाचक संज्ञा का सही विकल्प नहीं है।

- Ans A. सुखदायी
 B. दूरी
 C. सुखद
 D. धिक्कार

Question ID : 9277596978

Comprehension:

नीचे दिए गये गद्यांश के बाद 5 प्रश्न दिए गये हैं। इस गद्यांश को ध्यानपूर्वक पढ़ें और चार विकल्पों में से प्रत्येक प्रश्न का सर्वोत्तम उत्तर चुनें।

सत्संग से लौकिक और पारलौकिक दोनों प्रकार के सुख प्राप्त होते हैं। यदि कोई मनुष्य इस जीवन में दुखी रहता है तो कम से कम कुछ समय के लिए श्रेष्ठ पुरुषों की संगति में वह अपने सांसारिक दुखों का विस्मरण कर देता है। महापुरुषों के उपदेश सदैव सुख शांति प्रदान करते हैं। दुख के समय मनुष्य जिनका स्मरण करके धीरज प्राप्त करता है। सत्संग में लीन रहने वाले मनुष्य को दुखों का भय नहीं रहता है। वह अपने दिल को समझता है, जिससे दुखों का कोई कारण ही शेष नहीं रह जाता। सत्संग के प्रभाव से धैर्य का लाभ होता है जिससे मन में क्षमा की शक्ति स्वयं ही आ जाती है। क्षमा सभी प्रकार के दुर्गुणों का विनाश कर देती है और मन को शांति व संतोष प्रदान करती है।

SubQuestion No : 16

Q.16 इनमें से कौन-सा परमार्थ का विलोम शब्द है?

- Ans A. निर्वाण
 B. स्वार्थ
 C. मोक्ष
 D. भलाई

TEACHERS

Question ID : 9277596995

Comprehension:

नीचे दिए गये गद्यांश के बाद 5 प्रश्न दिए गये हैं। इस गद्यांश को ध्यानपूर्वक पढ़ें और चार विकल्पों में से प्रत्येक प्रश्न का सर्वोत्तम उत्तर चुनें।

सत्संग से लौकिक और पारलौकिक दोनों प्रकार के सुख प्राप्त होते हैं। यदि कोई मनुष्य इस जीवन में दुखी रहता है तो कम से कम कुछ समय के लिए श्रेष्ठ पुरुषों की संगति में वह अपने सांसारिक दुखों का विस्मरण कर देता है। महापुरुषों के उपदेश सदैव सुख शांति प्रदान करते हैं। दुख के समय मनुष्य जिनका स्मरण करके धीरज प्राप्त करता है। सत्संग में लीन रहने वाले मनुष्य को दुखों का भय नहीं रहता है। वह अपने दिल को समझता है, जिससे दुखों का कोई कारण ही शेष नहीं रह जाता। सत्संग के प्रभाव से धैर्य का लाभ होता है जिससे मन में क्षमा की शक्ति स्वयं ही आ जाती है। क्षमा सभी प्रकार के दुर्गुणों का विनाश कर देती है और मन को शांति व संतोष प्रदान करती है।

SubQuestion No : 17

Q.17 परोपकार के अंतर्गत व्यक्ति दूसरों की सहायता कर किसकी प्राप्ति करता है?

- Ans A. बलिदान की
 B. दिखावे की
 C. बाहरी ज्ञान की
 D. आत्मिक आनन्द की

Question ID : 9277596994

Comprehension:

नीचे दिए गये गद्यांश के बाद 5 प्रश्न दिए गये हैं। इस गद्यांश को ध्यानपूर्वक पढ़ें और चार विकल्पों में से प्रत्येक प्रश्न का सर्वोत्तम उत्तर चुनें।

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SubQuestion No : 18

Q.18 इस अनुच्छेद का कोई उपयुक्त शीर्षक-

- Ans
- A. स्वार्थ और परमार्थ
 - B. परोपकार के अनेक रूप
 - C. परोपकार ही सच्ची मानवता है
 - D. योग्य जीव मनुष्य

Question ID : 9277596996

Comprehension:

नीचे दिए गये गद्यांश के बाद 5 प्रश्न दिए गये हैं। इस गद्यांश को ध्यानपूर्वक पढ़ें और चार विकल्पों में से प्रत्येक प्रश्न का सर्वोत्तम उत्तर चुनें।

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SubQuestion No : 19

Q.19 परोपकार रूपी गुण किसको किससे अलग करता है?

- Ans
- A. जीव को मानव से
 - B. मानव को ईश्वर से
 - C. मानव को पशु से
 - D. मानव को मनुष्य से

Question ID : 9277596993

Comprehension:

नीचे दिए गये गद्यांश के बाद 5 प्रश्न दिए गये हैं। इस गद्यांश को ध्यानपूर्वक पढ़ें और चार विकल्पों में से प्रत्येक प्रश्न का सर्वोत्तम उत्तर चुनें।

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SubQuestion No : 20

Q.20 अनुच्छेद के अनुसार सच्ची मानवता क्या है ?

- Ans
- A. दूसरों के लिए सब न्योछावर कर देना
 - B. ईश्वर के लिए सब न्योछावर कर देना
 - C. अपने लिए सब न्योछावर कर देना
 - D. पशुओं के लिए सब न्योछावर कर देना

Question ID : 9277596992

Q.1 What condition holds for perpendicularity of 2 vectors?

- Ans
- A. the vectors are equal
 - B. one of the two vectors is zero
 - C. their dot product is zero
 - D. their cross product is zero

Question ID : 9277597004

Q.2 The graph of a quadratic equation $y=ax^2+bx+c$ is a parabola, when it will be upwards and downwards curve?

- Ans
- A. it will be open upwards if $a>0$ and downwards if $a<0$
 - B. it will be open upwards if $a<0$ and downwards if $a>0$
 - C. it will never be open upwards
 - D. it will never be open downwards

Question ID : 9277597005

Q.3 When the fluid (F) is incompressible then which of following condition holds ?

- Ans
- A. $F=0$
 - B. $\text{div}(F)=0$
 - C. $\text{div}(F)$ is non zero
 - D. scalar product vanishes

Question ID : 9277597002

Q.4 If f be a function defined in $[a, b]$ and is twice differentiable, then it is said to be concave upwards if:

- Ans
- A. $f(x)<0$ for all x
 - B. $f'(x)>0$ for all $x \in [a, b]$
 - C. $f(x)>0$ for all x
 - D. $f'(x)<0$ for all x

Question ID : 9277596997

Q.5 The surface area of a sphere of radius a is

- Ans
- A. 0
 - B. $4\pi a$
 - C. $4\pi a^2$
 - D. $-4\pi a^2$

Question ID : 9277597001

Q.6 The inverse of 3 modulo 7 is _____?

- Ans
- A. -4
 - B. -1
 - C. -2
 - D. -3

Question ID : 9277597009

Q.7 If $A = 2i+j+k$ $B=4i+j-k$ find $A.B$?

- Ans
- A. 10
 - B. 11
 - C. 9
 - D. 8

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Question ID : 9277597003

Q.8 The points a,b,c,d , taken in that order, in the complex plane are the vertices of a parallelogram if _____?

- Ans
- A. $a+b=c+d$
 - B. $a-b=b-c$
 - C. $a+c=b+d$
 - D. $a+b=b+c$

Question ID : 9277597006

Q.9 Which of the following is correct for the function $f(x)=x^3-3x^2-9x-1$?

- Ans
- A. it has local maximum at 3 but has no local minimum
 - B. it has local maximum at -1 and local minimum at 3
 - C. it has local maximum at 3 and local minimum at -2
 - D. it neither has local maximum nor local minimum

Question ID : 9277596998

Q.10 A real number sequence $\langle f_n \rangle$ is said to be oscillating finitely if?

- Ans
- A. it is not divergent
 - B. it is not convergent
 - C. it is not bounded; it is not convergent; it is not divergent
 - D. it is not bounded

Question ID : 9277597015

Q.11 Which theorem states that "Every bounded sequence has at least a limit point"?

- Ans
- A. Bolzano weierstrass theorem
 - B. Representation theorem
 - C. Sandwich theorem
 - D. Initial value problem

Question ID : 9277597016

Q.12 If $|A|=4$, find the number of partitions of A ?

- Ans
- A. 10
 - B. 25
 - C. 15
 - D. 20

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Question ID : 9277597007

Q.13 To reduce the matrix to row echleon form the leading entry of each row must be?

- Ans
- A. 2
 - B. 0
 - C. -1
 - D. 1

Question ID : 9277597013

Q.14 When is a curve said to be symmetric about the pole or origin?

- Ans
- A. if curve changes when r is replaced by $2r$
 - B. if curve changes when r is replaced by $-r$
 - C. if curve doesn't change when r is replaced by $-r$
 - D. if curve doesn't change when r is replaced by $2r$

Question ID : 9277597000

Q.15 Which of the following is not included in general method to draw an algebraic curve for tracing ?

- Ans
- A. orthogonality
 - B. symmetry
 - C. tangent to the curve
 - D. region

Question ID : 9277596999

Q.16 Find the number of anti symmetric relations on set A having 2 elements?

- Ans
- A. 14
 - B. 16
 - C. 12
 - D. 10

Question ID : 9277597008

Q.17 Let A be an $n \times m$ matrix with each entry equal to +1, -1 or 0 such that every column has exactly one +1 and exactly one -1 then what can u say about rank of the matrix?

- Ans
- A. $\text{rank}A=m$
 - B. $\text{rank}(A)=n-1,$
 - C. $\text{rank}(A)=n < m$
 - D. $\text{rank}A \leq n-1$

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Question ID : 9277597012

Q.18 Euler function is:

- Ans
- A. neither one one nor onto
 - B. one one
 - C. onto
 - D. onto but not one one

Question ID : 9277597010

Q.19 Identify the set in which supremum of set is equal to infimum of the set?

- Ans
- A. empty
 - B. $\{1,2,3\}$
 - C. $\{a\}$
 - D. $\{a,b\}$

Question ID : 9277597014

Q.20 The congruence relation $ax=b(\text{mod } m)$ has a unique solution if ?

- Ans
- A. $\text{gcd}(a,m)=1$
 - B. $\text{gcd}(a,m)$ is any non zero number
 - C. $\text{gcd}(a,m)=m$
 - D. $\text{gcd}(a,m)$ is any prime number

Question ID : 9277597011

Section : Discipline2

Q.1 Find the limit of function $f(x,y)=x+2y$ as $(x,y)\rightarrow(1,2)$?

- Ans
- A. 3
 - B. 2
 - C. 4
 - D. 5

Question ID : 9277597036

Q.2 For what value of k does the function $f(x,y)=3xy$; where (x,y) is not equal to $(2,3)$ and k whenever $(x,y)=(2,3)$?

- Ans
- A. 18
 - B. 8
 - C. 12
 - D. 6

Question ID : 9277597034

Q.3 Logistic growth equation is given by?

- Ans
- A. $rN((K-N)/K)$
 - B. rN/K
 - C. $rN(K-N)$
 - D. $rN/(k(k-N))$

Question ID : 9277597024

Q.4 Local minimizer u of J is isolated if there exists $p > 0$ and for u in S we have?

- Ans
- A. $J(u) < J(v)$
 - B. $J(v)$ is possible
 - C. $J(u) > J(v)$
 - D. $J(u)$ is possible

Question ID : 9277597029

Q.5 Many scientists use mathematical model to convert data into __ ?

- Ans
- A. passage
 - B. system
 - C. model
 - D. raw form

Question ID : 9277597022

Q.6 The infinite series $\sum \cos(1/n)$ where n goes from 1 to infinity is?

- Ans
- A. divergent
 - B. finite
 - C. convergent
 - D. oscillates finitely

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Question ID : 9277597021

Q.7 Find the limit point of the sequence $\langle 1 + 1/n \rangle$?

- Ans
- A. 2
 - B. -1
 - C. 0
 - D. 1

Question ID : 9277597019

Q.8 Find the limit of the function $f(n) = 1/n$ where n approaches infinity

- Ans
- A. 3
 - B. 2
 - C. 0
 - D. 1

Question ID : 9277597030

Q.9 Let $A = \{z \in \mathbb{C} : |z| > 1\}$ $B = \{z \in \mathbb{C} : z \text{ is not equal to } 0\}$ then which is the false statement?

- Ans
- A. there is a continuous onto function $f: A \rightarrow B$
 - B. there is a non constant Analytic function $f: A \rightarrow B$
 - C. there is a non constant Analytic function from $f: B \rightarrow A$
 - D. there is a continuous function one to one function $f: B \rightarrow A$

Question ID : 9277597033

Q.10 Which rule is used to calculate limits when the function reaches to indeterminate forms?

- Ans
- A. C and D rule
 - B. Leibnitz rule
 - C. L' Hospital's rule
 - D. Cinco rule

Question ID : 9277597031

Q.11 If L be a limit point of the sequence $\langle A \rangle$ then there exists a subsequence $\langle B \rangle$ of the sequence $\langle A \rangle$ which converges to?

- Ans
- A. $2L$
 - B. $3L$
 - C. L
 - D. $4L$

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Question ID : 9277597032

Q.12 $(B(x,y))$ symmetric group of order n is a closed subspace of $(B(x,y))$ group of order n for what value of n ?

- Ans
- A. n greater than or equal to 2
 - B. for infinite n
 - C. for n equal to one
 - D. for n having zero value

Question ID : 9277597028

Q.13 The solution of the initial value problem $xy' - y = 0$ with $y(1) = 1$ is?

- Ans
- A. $y = 2x - 1$
 - B. $y = 1/x$
 - C. $y = x$
 - D. $y = 1/(2x - 1)$

Question ID : 9277597026

Q.14 Change in number of individuals in population over a period of time is called_____

- Ans
- A. logistic growth
 - B. exponential growth
 - C. population growth
 - D. sigmoid growth

Question ID : 9277597025

Q.15 What will we do to make the given differential equation exact?

- Ans
- A. we divide it by its derivatives
 - B. we do integration on both sides
 - C. we bipolarate the same
 - D. we multiply it with integrating factor

Question ID : 9277597023

Q.16 The infinite series $-1-3-5-7.....$ diverges to?

- Ans
- A. infinity
 - B. negative of infinity
 - C. zero
 - D. one

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Question ID : 9277597020

Q.17 Pick the true statement

- Ans
- A. series always converges to a finite number
 - B. Every convergent sequence is cauchy sequence
 - C. every convergent sequence is not bounded
 - D. No Cauchy sequence is convergent

Question ID : 9277597018

Q.18 Function $f(x,y)$ is said to be continuous at (a,b) whenever $|f(x,y)-f(a,b)|<\epsilon$ if?

- Ans
- A. no such function exists
 - B. $|y-b|<\delta$ both follow.
 - C. $|y-b|<\delta$
 - D. $|x-a|<\delta$

Question ID : 9277597035

Q.19 All non trivial solutions of $x^2y''+xy'+4xy$ are?

- Ans A. bounded and non periodic
 B. periodic
 C. bounded and periodic
 D. unbounded

Question ID : 9277597027

Q.20 Let A is a subset of R and $f:A$ to R is given by $f(x)=x^2$, then f is uniformly continuous if ?

- Ans A. A is dense subset of R
 B. A is open
 C. A is bounded subset of R
 D. A is unbounded

Question ID : 9277597017

Section : Discipline3

Q.1 The area bounded by the curve $y=2\sqrt{x}, y=-x, x=1$ and $x=4$ is given by ?

- Ans A. 25
 B. $101/6$
 C. $(1/2)$
 D. $(1/56)$

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Question ID : 9277597044

Q.2 Function $f:[a,b] \rightarrow \mathbb{R}$, P and Q are partition of $[a,b]$ s.t. P is contained in Q then ?

- Ans A. $L(f,P) \geq U(f,Q)$
 B. both never hold
 C. $L(f,P) \leq L(f,Q)$
 D. one is true other is false

Question ID : 9277597049

Q.3 In which case improper integral becomes equal to Riemann integrable?

- Ans
- A. never possible
 - B. as a special case of Lebesgue integral
 - C. sometimes differentiable
 - D. occurs somehow

Question ID : 9277597050

Q.4 Find radius of convergence of $\sum_{n=0}^{\infty} (x-7)^{n+1}/n^n$?

- Ans
- A. 0
 - B. 2
 - C. 1
 - D. infinity

Question ID : 9277597055

Q.5 For the function to be Riemann integrable what will be the condition in terms of affecting the power series?

- Ans
- A. upper integral does not exist
 - B. lower integral is less than upper integral
 - C. lower integral does not exist
 - D. lower integral is same as upper integral

Question ID : 9277597056

Q.6 Pick the wrong statement?

- Ans
- A. discontinuity always occurs at upper limit
 - B. Discontinuity occurs at both upper and lower limits of the function
 - C. Improper integral of 2nd kind has discontinuity at lower limit
 - D. Improper integral of 2nd kind has discontinuity at upper limit

Question ID : 9277597051

Q.7 The divergence of a vector field A is always equal to zero if the vector field A can be expressed as ?

Ans A. the divergence of vector field

B.

divergence of any scalar field: Is this option a direct eliminator? Better change it

C. gradient of any scalar field

D. the curl of any vector field

Question ID : 9277597047

Q.8 If \mathbf{R} is the position vector, then $\text{div}\mathbf{R}$ is equal to

Ans A. 2

B. 4

C. 1

D. 3

Question ID : 9277597041

Q.9 Which of the following function contains odd terms in the expansion of Taylor's series?

Ans A. $\cos(x^2)$

B. $\sin(x^3)$

C. $\sin(x^2)$

D. $\cos(x^3)$

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Question ID : 9277597039

Q.10 Green's theorem is used to ?

Ans A. volume of plane figures

B. solve 2-D flow equation

C. bipolarate the same:

D. parameter of plane figures

Question ID : 9277597046

Q.11 The necessary and sufficient condition for Taylor's theorem is that ?

Ans A. f is not differentiable

B. f has higher derivatives

C. f is continuous

D. f should exist

Question ID : 9277597038

Q.12 The line integrals can be converted to surface integral using ----- in multiple connected domain?

- Ans
- A. Riemann equation
 - B. Baire's Sandwich theorem
 - C. Sandwich theorem
 - D. Green's theorem

Question ID : 9277597045

Q.13 Find the value of $f(x, y) = 8x + 5y - 7$ at $(x, y) = (1, 2)$

- Ans
- A. 11
 - B. 14
 - C. 13
 - D. 12

Question ID : 9277597040

Q.14 A function is said to be Riemann integrable over $[a, b]$ s.t. any number L lying between $L(f, P)$ and $U(f, P)$ s.t. for $\epsilon > 0$ s.t.?

- Ans
- A. $|U(f, P) - L| < \epsilon$ and $|L - L(f, P)| < \epsilon$
 - B. $|U(f, P) - L| > \epsilon$
 - C. contractive
 - D. $|L - L(f, P)| > \epsilon$

Question ID : 9277597048

Q.15 The domain of $\cos(x)$ is ___?

- Ans
- A. $[0, 1]$
 - B. $[1, 2]$
 - C. $[-1, 1]$
 - D. $[-1, 0]$

Question ID : 9277597037

Q.16 Find the interior of $\{1, 2, 3, 4, \dots\}$?

- Ans
- A. $\{3\}$
 - B. $\{1\}$
 - C. empty
 - D. $\{2\}$

Question ID : 9277597052

Q.17 If p and q are positive numbers and $p^2+q^2=1$ then maximum value of $p+q$ is?

- Ans
- A. infinity
 - B. $\sqrt{3}$
 - C. $\sqrt{2}$
 - D. 14

Question ID : 9277597042

Q.18 Evaluate the double integral $\int \int_R x \sin(x+y) dx dy$ over $R = [0, \pi; 0, \pi/2]$?

- Ans
- A. $\pi+2$
 - B. -2π
 - C. 2π
 - D. $\pi-2$

Question ID : 9277597043

Q.19 The limit points of $\langle 1, 0, 2, 1, 0, 2, 1, 0, 2, \dots \rangle$? Is/are:

- Ans
- A. 2 only
 - B. 1, 0, 2
 - C. 1 only
 - D. 0 only

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Question ID : 9277597054

Q.20 The set of limit points of a sequence is:

- Ans
- A. closed set
 - B. both open and closed
 - C. neither open nor closed
 - D. open set

Question ID : 9277597053

Q.1 Which property does not hold as a binary operation in groups?

- Ans
- A. Matrix multiplication
 - B. multiplication
 - C. addition
 - D. subtraction

Question ID : 9277597067

Q.2 If $f(z) = u + iv$ is an analytic function in domain D then?

- Ans
- A. u and v form orthogonal family
 - B. u and v are parallel
 - C. u and v intersect each other
 - D. u and v bipolarate each other

Question ID : 9277597074

Q.3 A linear operator define by T in metric space is said to be bounded iff?

- Ans
- A. $T(x)$ is positive
 - B. $\|T(x)\|$ exists
 - C. $\|T(x)\| < k\|x\|$
 - D. $T(x)$ is negative

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Question ID : 9277597061

Q.4 A set G with one binary operation which is closed as well as associative is called?

- Ans
- A. groupoid
 - B. monoid
 - C. semigroup
 - D. group

Question ID : 9277597070

Q.5 A metric space X is said to be complete if

- Ans
- A. if every Cauchy sequence in X converges in X
 - B. if every convergent sequence in it is bounded
 - C. if every Cauchy sequence in X has more than 2 convergent subsequences
 - D. if Cauchy sequence in X is not convergent

Question ID : 9277597057

Q.6 A metric space defined by $\{d(x,y)=r \text{ for all } x,y \in \mathbb{R}\}$ is called as

- Ans
- A. sphere
 - B. set
 - C. open ball
 - D. algebra

Question ID : 9277597060

Q.7 Which is known as multiplicative identity of group with respect to external binary operation?

- Ans
- A. 0
 - B. \mathbb{Q}
 - C. 1
 - D. \mathbb{R}

Question ID : 9277597068

Q.8 How many subgroups(p) of non cyclic groups G is possible?

- Ans
- A. $p+3$
 - B. p
 - C. $p+2$
 - D. $p+1$

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Question ID : 9277597071

Q.9 Find the domain of the function defined by $f(z)=z/(z+z')$ where z' denotes complex conjugate of z ?

- Ans
- A. $\text{Im}(z)$ is not equal to 0
 - B. $\text{Im}(z)=0$
 - C. $\text{re}(z)=0$
 - D. $\text{re}(z)$ is not equal to 0

Question ID : 9277597076

Q.10 Let A be a subset of \mathbb{R} . which of the following properties imply A is compact?

- Ans
- A. there is no one one and continuous function from A onto $(0,1)$
 - B. Every continuous function f from A to \mathbb{R} is bounded
 - C. there exists a continuous function from A onto $[0,1]$
 - D. Every sequence $\{x_n\}$ in A has no convergent subsequence converging to a point in A

Question ID : 9277597062

Q.11 For any two subsets X and Y let $X+Y = \{x+y: x \in X, y \in Y\}$ then find the wrong one?

- Ans
- A. if X is closed Y is compact then $X+Y$ is closed
 - B. if X and Y are compact then $X+Y$ is compact
 - C. If X and Y are closed then $X+Y$ is closed
 - D. if X and Y are open sets then $X+Y$ is open

Question ID : 9277597063

Q.12 Continuous function $C[a,b]$ from a to b is called

- Ans
- A. not defined
 - B. cyclic
 - C. not bounded
 - D. bounded function

Question ID : 9277597059

Q.13 Choose the wrong statement

- Ans
- A. every non abelian group has abelian subgroup
 - B. Every element generates a cyclic subgroup of its own order
 - C. Klein's group is not abelian
 - D. a subgroup of a cyclic group is cyclic

Question ID : 9277597069

Q.14 What are maximal subgroups of Klein's group?

- Ans
- A. $\{e, c\}$
 - B. $\{e, a\}, \{e, b\}, \{e, c\}$
 - C. $\{e, a\}$
 - D. $\{e, b\}$

Question ID : 9277597072

Q.15 The symmetric property in a metric space is

- Ans
- A. $d(x, y) > 0$
 - B. $d(x, y) = 0$
 - C. $d(x, y) = d(y, x)$
 - D. $d(x, y) < 0$

Question ID : 9277597058

Q.16 Integrate $1/(z^3-1)^2$, the counter clockwise around the circle $|z-1|=1$?

- Ans
- A. $-2\pi i/9$
 - B. $2\pi i$
 - C. $4\pi i$
 - D. $-4\pi i/9$

Question ID : 9277597075

Q.17 For what values of z the function defined by the equation $z=\sin hu.\cos v+i\sin hu.\sin v$; $w=u+iv$ ceases to be analytic?

- Ans
- A. $+i, -i$
 - B. 1
 - C. 0
 - D. -1

Question ID : 9277597073

Q.18 Number of onto homomorphism from Klein's group to Symmetric group of order 4?

- Ans
- A. 1
 - B. 2
 - C. does not exist
 - D. 3

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Question ID : 9277597064

Q.19 The external direct product of two groups is abelian if and only if?

- Ans
- A. both are not abelian - do you mean None is abelian - if so, better change it like that
 - B. one is abelian
 - C. other is abelian - What option is this? Is this not included in the previous option itself?
 - D. both are abelian

Question ID : 9277597066

Q.20 Let K be a group with 8 elements. Let H be a subgroup of K and $H < K$. It is known that the size of H is at least 3. The size of H is?

- Ans
- A. 1
 - B. 3
 - C. 2
 - D. 4

Question ID : 9277597065

Q.1 How many real roots are possible for the equation $x^5 - x^4 + x^3 - 1 = 0$?

- Ans
- A. atleast three real roots
 - B. at least one real root
 - C. no real root
 - D. atleast two real roots

Question ID : 9277597078

Q.2 The line integral of function $F = yzi$, in the counterclockwise direction, along the circle $x^2 + y^2 = 1$ at $z = 1$ is?

- Ans
- A. 0
 - B. 2
 - C. πi
 - D. $-\pi i$

Question ID : 9277597079

Q.3 What will be the minimum degree of polynomial with integer coefficients, having roots $2 - \sqrt{5}, 3, 4$?

- Ans
- A. 4
 - B. 1
 - C. 2
 - D. 3

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Question ID : 9277597080

Q.4 Which theorem connects the result $\langle T(x), y \rangle = \langle x, z \rangle$?

- Ans
- A. Riesz representative theorem
 - B. Hilbert Theorem
 - C. Hahn Banach Theorem
 - D. Picard theorem

Question ID : 9277597086

Q.5 If $u = (1, 0, 1)$ $v = (0, 1, 1)$ find the cosine of angle between these two vectors using inner product?

- Ans
- A. $(1/4)$
 - B. $(1/2)$
 - C. 0
 - D. $(1/3)$

Question ID : 9277597085

Q.6 Find the residue of $(2z+1)/((z+1)(z-1))$ at $z=1$?

- Ans
- A. $(1/2)$
 - B. $(3/2)$
 - C. $(5/2)$
 - D. $(7/2)$

Question ID : 9277597081

Q.7 Find the residue of $z^3/(z^2-1)$ at $z = \text{infinity}$?

- Ans
- A. -2
 - B. -1
 - C. 2
 - D. 1

Question ID : 9277597082

Q.8 Choose the wrong statement

- Ans
- A. If R is integral domain then $R[x]$ is also an integral domain
 - B. If R is integral domain then unit of R and $R[x]$ are same
 - C. $R[x]$ is not CRU
 - D. $R[x]$ is infinite ring

Question ID : 9277597084

Q.9 Evaluate the integral $(1/z)dz$ where C is the circle $z=e^{ib}$ where $0 < b < \pi$?

- Ans
- A. $2\pi i$
 - B. 0
 - C. πi
 - D. $-\pi i$

Question ID : 9277597077

Q.10 Which of the following is not a polynomial ring?

- Ans
- A. $\mathbb{Q}[x]$
 - B. $\mathbb{C}[x]$
 - C. $\mathbb{R}[x]$
 - D. $\mathbb{R}[x]-\mathbb{Z}[x]$

Question ID : 9277597083

Q.1 CIC stands for ___.

- Ans
- A. Competent interactional classroom
 - B. Competent intern classroom
 - C. Competent institutional classroom
 - D. Classroom interactional competence

Question ID : 9277597089

Q.2 From following which is not a type of Blog?

- Ans
- A. Group blog
 - B. Micro blog
 - C. Social blog
 - D. Personal blog

Question ID : 9277597093

Q.3 In 2009 which Shiksha Abhiyan was launched ?

- Ans
- A. The Rashtriya Madhyamik
 - B. The primary Section
 - C. The Prabhakar Madhyamik
 - D. The Secondary Section

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Question ID : 9277597096

Q.4 Constructivist theory in education is based on ___

- Ans
- A. the idea that people actively construct or make their own knowledge
 - B. the idea that learn from the society
 - C. the knowledge from the book they learn
 - D. the idea that teacher give

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Question ID : 9277597088

Q.5 Hard applied discipline emphasizes on which of the following?

- Ans
- A. Emphasize understanding and interpretation
 - B. Emphasize Products and techniques
 - C. Emphasize Process and Protocols
 - D. Emphasize discoveries and Explanations

Question ID : 9277597090

Q.6 Which one is not a part of Organisation and Integration of Learning Experiences and Content?

- Ans
- A. Available learning situations in school
 - B. Principles of teachers
 - C. Inputs for effective classroom interaction
 - D. Developmental level of learning

Question ID : 9277597094

Q.7 Which colour is regarded as masculine?

- Ans
- A. Grey
 - B. Red
 - C. Pink
 - D. Blue

Question ID : 9277597092

Q.8 Educational realism is the belief that we should study _____, critical thinking, and the scientific method to teach students to perceive and understand reality.

- Ans
- A. fallacy
 - B. irrational
 - C. logic
 - D. incoherent

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Question ID : 9277597087

Q.9 Which pairs help participants to develop interpersonal skills, confidence, communication, and assertiveness?

- Ans
- A. Female
 - B. Transgender
 - C. Mix gender
 - D. Male

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Question ID : 9277597091

Q.10 _____ is the major means of learning.

- Ans
- A. Writing
 - B. Experience
 - C. Practice
 - D. Reading

Question ID : 9277597095