



GOVT. OF NCT OF DELHI  
Delhi Subordinate Services Selection Board  
FC-18, Institutional Area, Karkardooma, Delhi – 110092.  
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Participant ID	
Participant Name	
Test Center Name	iON Digital Zone iDZ 1 Mathura Road
Test Date	25/06/2023
Test Time	8:30 AM - 10:30 AM
Subject	TGT Computer Science

Section : General intelligence and Reasoning Ability

**Q.1** Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the one that is different.

- Ans**
- ✓ 1. 67-469
  - ✗ 2. 69-483
  - ✗ 3. 81-567
  - ✗ 4. 87-609

Question ID : 630680256241  
Option 1 ID : 630680994899  
Option 2 ID : 630680994900  
Option 3 ID : 630680994901  
Option 4 ID : 630680994902

**Q.2** Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

**Statements:**

- A. All troupes are flowers.
- B. All flowers are jungles.
- C. All jungles are gangs.

**Conclusions:**

- I. Some gangs are juggles.
- II. Some jungles are flowers.
- III. All troupes are jungles.

- Ans**
- ✗ 1. Only conclusions II and III follow.
  - ✗ 2. Only conclusions I and II follow.
  - ✓ 3. All the conclusions I, II and III follow.
  - ✗ 4. Only conclusion III follows.

Question ID : 630680256226  
Option 1 ID : 630680994840  
Option 2 ID : 630680994842  
Option 3 ID : 630680994841  
Option 4 ID : 630680994839

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Q.3 If

$A + B$  means A is the brother of B,

$A - B$  means A is the sister of B and

$A \times B$  means A is the father of B,

then how is P related to S in the expression ' $P \times Q - R + S$ '?

- Ans
- 1. P is the father of S
  - 2. P is the son of S
  - 3. P is the brother of S
  - 4. P is the uncle of S

Question ID : 630680256231

Option 1 ID : 630680994861

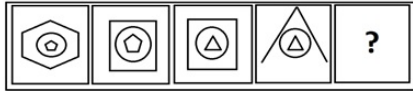
Option 2 ID : 630680994860

Option 3 ID : 630680994862

Option 4 ID : 630680994859



Q.4 Select the figure from among the given options that can replace the question mark (?) in the following series.



Ans

✗ 1.



✗ 2.



✓ 3.



✗ 4.



Question ID : 630680256237  
 Option 1 ID : 630680994885  
 Option 2 ID : 630680994884  
 Option 3 ID : 630680994883  
 Option 4 ID : 630680994886

**Q.5** Read the given statement and conclusions carefully. Assuming that the information given in the statement is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement.

**Statement:**

Health is the best wealth of an individual.

**Conclusions:**

- I. People do not think too much about health while making efforts to earn.
- II. Wealth is of no use without health.

**Ans**  1. Only conclusion I follows.

2. Either conclusion I or II follows.

3. Only conclusion II follows.

4. Both I and II follow.

Question ID : 630680256235

Option 1 ID : 630680994875

Option 2 ID : 630680994877

Option 3 ID : 630680994876

Option 4 ID : 630680994878

**Q.6** Which two signs should be interchanged to make the following equation correct?

$$105 \div 21 + 67 - 64 \times 16 = 287$$

**Ans**  1.  $\div$  and  $\times$

2.  $\times$  and  $+$

3.  $+$  and  $-$

4.  $\times$  and  $-$

Question ID : 630680256244

Option 1 ID : 630680994911

Option 2 ID : 630680994914

Option 3 ID : 630680994912

Option 4 ID : 630680994913

**Q.7** ABCDEFGHIJKLMNOPQRSTUVWXYZ

If the 1<sup>st</sup>, 3<sup>rd</sup>, 5<sup>th</sup>, 8<sup>th</sup>, 12<sup>th</sup>, 15<sup>th</sup> and 18<sup>th</sup> letters of the English alphabet (given above) are chosen to form a meaningful word (name of a disease), which letter will come in the middle of all? Each letter must be used and only once.

**Ans**  1. A

2. E

3. C

4. L

Question ID : 630680256229

Option 1 ID : 630680994852

Option 2 ID : 630680994854

Option 3 ID : 630680994853

Option 4 ID : 630680994851

**Q.8** Four letter-cluster pairs have been given, out of which three are alike in some manner and one is different. Select the one that is different.

- Ans**
- 1. INSPIRING : KMUOKQKMI
  - 2. CABALETTA : ABZBJFRUY
  - 3. FACULTIES : HZETNSKDU
  - 4. ABANDONED : CACMFNPFD

Question ID : 630680256234

Option 1 ID : 630680994871

Option 2 ID : 630680994872

Option 3 ID : 630680994874

Option 4 ID : 630680994873

**Q.9** Ramesh secured the 15<sup>th</sup> position from the top and is just 3 positions behind of his best friend Arvind in a class of 50 students. What will be the rank of Arvind from the bottom?

- Ans**
- 1. 36<sup>th</sup>
  - 2. 40<sup>th</sup>
  - 3. 39<sup>th</sup>
  - 4. 38<sup>th</sup>

Question ID : 630680256225

Option 1 ID : 630680994838

Option 2 ID : 630680994837

Option 3 ID : 630680994836

Option 4 ID : 630680994835

**Q.10** Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the one that is different.

- Ans**
- 1. 55-275
  - 2. 45-235
  - 3. 35-175
  - 4. 25-125

Question ID : 630680256240

Option 1 ID : 630680994898

Option 2 ID : 630680994897

Option 3 ID : 630680994895

Option 4 ID : 630680994896

**Q.11** Select the correct combination of mathematical signs that can sequentially replace the \* signs and balance the given equation.

$$37 * 42 * 21 * 37 * 67 * 44$$

- Ans**
1.  $\times, +, \div, -, =$
2.  $-, \div, +, \times, =$
3.  $\div, +, \times, -, =$
4.  $+, \div, \times, -, =$

Question ID : 630680256242

Option 1 ID : 630680994906

Option 2 ID : 630680994904

Option 3 ID : 630680994903

Option 4 ID : 630680994905

**Q.12** A question is given followed by two statements labelled I and II. Identify which of the statements is/are sufficient to answer the question.

**Question:** Who is the shortest of all?

**Statements:**

- I. Sachin is taller than Mohan and shorter than Vipin.
- II. Devika is shorter than Gangan.

**Ans**  1.

Both the statements I and II are insufficient to answer the question.

2.

Either statement I alone or statement II alone is sufficient to answer the question.

3.

Statement II alone is sufficient to answer the question, while statement I alone is not sufficient to answer the question.

4.

Statement I alone is sufficient to answer the question, while statement II alone is not sufficient to answer the question.

Question ID : 630680256232

Option 1 ID : 630680994866

Option 2 ID : 630680994865

Option 3 ID : 630680994864

Option 4 ID : 630680994863

**Q.13** Read the given statement and courses of action carefully. Assuming that the information given in the statement is true, even if it appears to be at variance with commonly known facts, decide which of the given courses of action logically follow(s) from the statement.

**Statement:**

In the last few years, the condition of roads in the state has continuously deteriorated.

**Courses of Action:**

- I. State Government should take strict action against all the employees of Road Development Authority.
- II. State Government should instruct Road Development Authorities to take regular inspection and necessary action to maintain roads.

- Ans**
- 1. Only II follows.
  - 2. Only I follows.
  - 3. Both I and II follow.
  - 4. Either I or II follows.

Question ID : 630680256236  
 Option 1 ID : 630680994880  
 Option 2 ID : 630680994879  
 Option 3 ID : 630680994882  
 Option 4 ID : 630680994881

**Q.14** How many even numbers are immediately followed by an odd number but not immediately preceded by an even number in the following series?

3 4 3 2 5 6 7 4 3 4 5 6 7 8 9 6 5 4 3 2 2 4 5 6 7 8 9 9 7 6 0 7 6 5 4 3

- Ans**
- 1. 13
  - 2. 14
  - 3. 12
  - 4. 11

Question ID : 630680256228  
 Option 1 ID : 630680994849  
 Option 2 ID : 630680994850  
 Option 3 ID : 630680994848  
 Option 4 ID : 630680994847

**Q.15** What approximate value should come in place of the question mark (?) in the following equation?

$$56.43 + 27.89 - 67.78 + 98.19 \times 13.67 = ?$$

- Ans**
- 1. 1235
  - 2. 1238
  - 3. 1123
  - 4. 1306

Question ID : 630680256243  
 Option 1 ID : 630680994907  
 Option 2 ID : 630680994909  
 Option 3 ID : 630680994908  
 Option 4 ID : 630680994910

Q.16 Select the option that contains figure X as its part.



X



1



2



3



4

- Ans
- 1. 1
  - 2. 4
  - 3. 3
  - 4. 2

Question ID : 630680256239  
 Option 1 ID : 630680994892  
 Option 2 ID : 630680994894  
 Option 3 ID : 630680994893  
 Option 4 ID : 630680994891

Q.17 In the early morning after sunrise, the football coach of Argentina is discussing the strategies for the next match with Messi on the ground such that the coach's shadow falls exactly in front of Messi. In which direction is Messi facing?

- Ans
- 1. South
  - 2. North
  - 3. East
  - 4. West

Question ID : 630680256230  
 Option 1 ID : 630680994855  
 Option 2 ID : 630680994856  
 Option 3 ID : 630680994857  
 Option 4 ID : 630680994858

Q.18 There are six persons, P, Q, R, S, T and U. T is older than no one. S is older than P. Q is younger than P. U is older than T but younger than Q. S is older than R. Who is the third youngest among all?

- Ans
- 1. Q
  - 2. P
  - 3. R
  - 4. U

Question ID : 630680256227  
 Option 1 ID : 630680994844  
 Option 2 ID : 630680994843  
 Option 3 ID : 630680994845  
 Option 4 ID : 630680994846

**Q.19** Select the option with the second term related to the first term in the same way as the second term is related to the first term in the given pair.

MATTER: BNUUSF

- Ans**
- 1. HOTELS : PIFTUM
  - 2. HOTELS : PIFUTM
  - 3. HOTELS : PIFUMT
  - 4. HOTELS : PFIUTM

Question ID : 630680256233  
 Option 1 ID : 630680994868  
 Option 2 ID : 630680994867  
 Option 3 ID : 630680994870  
 Option 4 ID : 630680994869

**Q.20** Select the correct mirror image of the given figure when the mirror is placed at the right side.



**Ans**

- 1.
- 2.
- 3.
- 4.

Question ID : 630680256238  
 Option 1 ID : 630680994890  
 Option 2 ID : 630680994888  
 Option 3 ID : 630680994889  
 Option 4 ID : 630680994887

Q.1 Which ministry has launched the Digital India Awards?

Ans  1. Ministry of Electronics and Information Technology

2. Ministry of Education

3. Ministry of Information and Broadcasting

4. Ministry of Commerce and Industry

Question ID : 630680256246

Option 1 ID : 630680994920

Option 2 ID : 630680994919

Option 3 ID : 630680994922

Option 4 ID : 630680994921

Q.2 How many scientists were awarded the Shanti Swarup Bhatnagar Award, 2021 for Science and Technology?

Ans  1. 14

2. 8

3. 11

4. 5

Question ID : 630680256245

Option 1 ID : 630680994918

Option 2 ID : 630680994916

Option 3 ID : 630680994917

Option 4 ID : 630680994915

Q.3 Which of the following terms is used for the rate at which commercial banks borrow money by selling their securities to the Reserve Bank of India?

Ans  1. Repo rate

2. Reverse bank rate

3. Bank rate

4. Reverse repo rate

Question ID : 630680256257

Option 1 ID : 630680994964

Option 2 ID : 630680994966

Option 3 ID : 630680994963

Option 4 ID : 630680994965

Q.4 Under whose rule were the southern kingdoms annexed to the Delhi Sultanate?

Ans  1. Ulugh Khan

2. Shershah Suri

3. Mubarak Khalji

4. Nasiruddin Khan

Question ID : 630680256250

Option 1 ID : 630680994937

Option 2 ID : 630680994935

Option 3 ID : 630680994936

Option 4 ID : 630680994938

Q.5 Which of the following was set up by the Exim Bank and SIDBI in 2021 for identifying potential mid-sized and small companies as India's new champions in exports?

- Ans
- 1. Prabasi Tarakki fund
  - 2. National Investment fund
  - 3. Ubharte Sitaare fund
  - 4. Stand Up India scheme

Question ID : 630680256258  
Option 1 ID : 630680994968  
Option 2 ID : 630680994967  
Option 3 ID : 630680994970  
Option 4 ID : 630680994969

Q.6 As of 2022, which of the following states has the highest number of assembly constituencies?

- Ans
- 1. Maharashtra
  - 2. Gujarat
  - 3. Uttar Pradesh
  - 4. Tamil Nadu

Question ID : 630680256263  
Option 1 ID : 630680994988  
Option 2 ID : 630680994990  
Option 3 ID : 630680994987  
Option 4 ID : 630680994989

Q.7 What is the minimum age requirement, as prescribed by the Constitution, to become a member of a Panchayat?

- Ans
- 1. 18 years
  - 2. 28 years
  - 3. 36 years
  - 4. 21 years

Question ID : 630680256264  
Option 1 ID : 630680994994  
Option 2 ID : 630680994993  
Option 3 ID : 630680994992  
Option 4 ID : 630680994991

Q.8 Which of the following is a vector borne disease?

- Ans
- 1. Diabetes
  - 2. Breast Cancer
  - 3. Covid-19
  - 4. Malaria

Question ID : 630680256261  
Option 1 ID : 630680994981  
Option 2 ID : 630680994982  
Option 3 ID : 630680994979  
Option 4 ID : 630680994980

Q.9 Who among the following won the Golden Boot award during the 2022 FIFA World Cup awards?

- Ans
- 1. Lionel Messi
  - 2. Kylian Mbappe
  - 3. Enzo Fernandez
  - 4. Emiliano Martinez

Question ID : 630680256248  
Option 1 ID : 630680994928  
Option 2 ID : 630680994927  
Option 3 ID : 630680994929  
Option 4 ID : 630680994930

Q.10 The final match of Ranji Trophy, 2022 was played between which two teams?

- Ans
- 1. Rajasthan and Maharashtra
  - 2. Haryana and Punjab
  - 3. Mumbai and Madhya Pradesh
  - 4. Delhi and Himachal Pradesh

Question ID : 630680256249  
Option 1 ID : 630680994933  
Option 2 ID : 630680994931  
Option 3 ID : 630680994932  
Option 4 ID : 630680994934

Q.11 With reference to the constitutional provisions regarding Rajya Sabha, which of the following statements is correct?

- Ans
- 1. The Attorney General of India is the ex-officio chairman of the Rajya Sabha.
  - 2. The Prime Minister of India is the ex-officio chairman of the Rajya Sabha.
  - 3. The Vice-President of India is the ex-officio chairman of the Rajya Sabha.
  - 4. The President of India is the ex-officio chairman of the Rajya Sabha.

Question ID : 630680256262  
Option 1 ID : 630680994986  
Option 2 ID : 630680994983  
Option 3 ID : 630680994984  
Option 4 ID : 630680994985

Q.12 Which of the following man-made objects was the first one to cross the heliosphere of our solar system?

- Ans
- 1. Sputnik-1
  - 2. New Horizons
  - 3. Messenger-1
  - 4. Voyager-1

Question ID : 630680256260  
Option 1 ID : 630680994976  
Option 2 ID : 630680994978  
Option 3 ID : 630680994977  
Option 4 ID : 630680994975

Q.13 Which of the following aims to create a competent civil service, rooted in Indian ethos, with a shared understanding of India's priorities, working in harmonisation for effective and efficient public service delivery?

- Ans
- 1. Mission Karmayogi
  - 2. Rashtriya Gokul Mission
  - 3. Atmanirbhar Bharat Abhiyan
  - 4. Samarth Scheme

Question ID : 630680256247

Option 1 ID : 630680994924

Option 2 ID : 630680994926

Option 3 ID : 630680994923

Option 4 ID : 630680994925

Q.14 Who among the following is NOT amongst the Trinity of Carnatic music?

- Ans
- 1. Tyagaraja
  - 2. Syama Sastri
  - 3. Tenali Raman
  - 4. Muthuswami Dikshitar

Question ID : 630680256256

Option 1 ID : 630680994959

Option 2 ID : 630680994960

Option 3 ID : 630680994962

Option 4 ID : 630680994961

Q.15 Who among the following planned to launch a military expedition to bring the Khurasan region under Delhi Sultanate's submission?

- Ans
- 1. Muhammad Tughluq
  - 2. Ghiyasuddin Khan
  - 3. Ibrahim Lodi
  - 4. Alauddin Khalji

Question ID : 630680256251

Option 1 ID : 630680994941

Option 2 ID : 630680994939

Option 3 ID : 630680994942

Option 4 ID : 630680994940

Q.16 The given pairs represent movements with the respective leaders. Which of these pairs is/are matched correctly?

- i. Koya Rebellion - Tomma Dora
- ii. Pabna Peasant Uprising - Bhagirath Manjhi
- iii. Kharwar Uprising - Shambhunath Pal

- Ans
- 1. Only ii
  - 2. ii and iii
  - 3. i and iii
  - 4. Only i

Question ID : 630680256252  
Option 1 ID : 630680994944  
Option 2 ID : 630680994946  
Option 3 ID : 630680994945  
Option 4 ID : 630680994943

Q.17 The temples at Khajuraho, a UNESCO World Heritage Site, were built during the reign of which of the following dynasties?

- Ans
- 1. Maurya
  - 2. Chandela
  - 3. Pallava
  - 4. Kakatiya

Question ID : 630680256254  
Option 1 ID : 630680994954  
Option 2 ID : 630680994953  
Option 3 ID : 630680994951  
Option 4 ID : 630680994952

Q.18 Terms such as 'Pada Bheda', 'Chalis' and 'Bhramaris' are associated with the techniques of which of the following dance forms?

- Ans
- 1. Odissi
  - 2. Kathakali
  - 3. Ghoomar
  - 4. Manipuri

Question ID : 630680256255  
Option 1 ID : 630680994957  
Option 2 ID : 630680994958  
Option 3 ID : 630680994956  
Option 4 ID : 630680994955

Q.19 Which of the following Indian monuments is NOT a UNESCO World Heritage Site?

- Ans
- 1. Red Fort
  - 2. Char Minar
  - 3. Taj Mahal
  - 4. Humayun's Tomb

Question ID : 630680256253  
Option 1 ID : 630680994948  
Option 2 ID : 630680994950  
Option 3 ID : 630680994947  
Option 4 ID : 630680994949

Q.20 In terms of power generation from renewable sources, which of the following sectors has the highest installed capacity in India as per the Annual Report, 2021-22 of the Ministry of New and Renewable Energy, Government of India?

- Ans
- 1. Small hydro
  - 2. Wind
  - 3. Bio-energy
  - 4. Solar

Question ID : 630680256259  
Option 1 ID : 630680994974  
Option 2 ID : 630680994972  
Option 3 ID : 630680994971  
Option 4 ID : 630680994973

Section : **Arithmetical and Numerical Ability**

Q.1 The ratio of spirit and water in solution A is 3 : 4, and the ratio of spirit and water in solution B is 5 : 9. Later, 5 L of A is mixed with 6 L of B. In 462 mL of the resulting solution, how much water (in mL) should be added so that the ratio of spirit and water in it becomes 1 : 2?

- Ans
- 1. 87
  - 2. 182
  - 3. 78
  - 4. 178

Question ID : 630680256269  
Option 1 ID : 630680995013  
Option 2 ID : 630680995011  
Option 3 ID : 630680995014  
Option 4 ID : 630680995012

**Q.2** When 3336, 4188 and 5679 are divided by a 2-digit number p, the remainder in each case is q. What is the value of (p - q)?

- Ans
- 1. 13
  - 2. 3
  - 3. 1
  - 4. 11

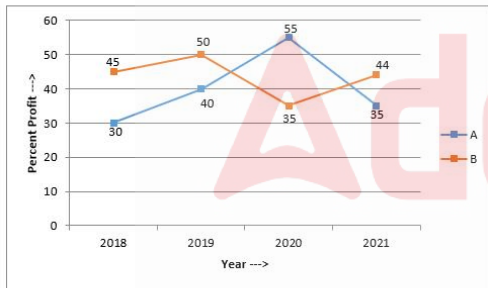
Question ID : 630680256267  
 Option 1 ID : 630680995006  
 Option 2 ID : 630680995004  
 Option 3 ID : 630680995003  
 Option 4 ID : 630680995005

**Q.3** A is 60% more than B. C is 55% more than the difference between A and B. If A is decreased by 40% and C is increased by  $33\frac{1}{3}\%$ , then C is what percentage more than A (correct to one decimal place)?

- Ans
- 1. 22.6%
  - 2. 29.2%
  - 3. 28.5%
  - 4. 25.4%

Question ID : 630680256271  
 Option 1 ID : 630680995019  
 Option 2 ID : 630680995022  
 Option 3 ID : 630680995021  
 Option 4 ID : 630680995020

**Q.4** Study the following graph and answer the question.



$$\text{Percent profit} = \frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100$$

$$\text{Profit} = \text{Income} - \text{Expenditure}$$

In 2018, if the expenditure of the company B is ₹300 crores and the income of company A is 390 crores, then by what percentage was the profit of company B more than that of A in that year?

- Ans
- 1. 40%
  - 2. 55%
  - 3. 50%
  - 4. 42%

Question ID : 630680256284  
 Option 1 ID : 630680995071  
 Option 2 ID : 630680995074  
 Option 3 ID : 630680995073  
 Option 4 ID : 630680995072

**Q.5** The volume of a right circular cylinder of height 32 cm and base diameter 36 cm is equal to the volume of a right circular cone of height 24 cm. What is the curved surface area (in  $\text{cm}^2$ ) of the cone?

- Ans**
- ✓ 1.  $432\sqrt{13}\pi$
  - ✗ 2.  $288\sqrt{13}\pi$
  - ✗ 3.  $240\sqrt{15}\pi$
  - ✗ 4.  $360\sqrt{15}\pi$

Question ID : 630680256281  
 Option 1 ID : 630680995062  
 Option 2 ID : 630680995060  
 Option 3 ID : 630680995059  
 Option 4 ID : 630680995061

**Q.6** The value of  $(5\frac{1}{9} - 7\frac{7}{8} \div 9\frac{9}{20}) \div 1.\bar{2} - (5\frac{1}{4} \div \frac{3}{7} \text{ of } \frac{1}{4} \times \frac{2}{7}) \times \frac{3}{14} + \frac{3}{4}$  is:

- Ans**
- ✗ 1.  $2\frac{1}{2}$
  - ✓ 2.  $1\frac{1}{4}$
  - ✗ 3.  $2\frac{1}{3}$
  - ✗ 4.  $1\frac{1}{3}$

Question ID : 630680256265  
 Option 1 ID : 630680994995  
 Option 2 ID : 630680994997  
 Option 3 ID : 630680994996  
 Option 4 ID : 630680994998

**Q.7** P varies directly as Q and inversely as R. When Q = 2.7 and R = 1.6, then P = 4.5. What is the value of R when P = 6 and Q = 15?

- Ans**
- ✗ 1. 5
  - ✓ 2.  $\frac{20}{3}$
  - ✗ 3. 10
  - ✗ 4.  $\frac{5}{2}$

Question ID : 630680256274  
 Option 1 ID : 630680995033  
 Option 2 ID : 630680995034  
 Option 3 ID : 630680995032  
 Option 4 ID : 630680995031

**Q.8** When Savita sells 46 articles for ₹2,070, she suffers a loss of 10%. To earn a profit 20%, she should sell 46 articles for:

- Ans**
- 1. ₹2,852
  - 2. ₹2,668
  - 3. ₹2,760
  - 4. ₹2,990

Question ID : 630680256272  
Option 1 ID : 630680995024  
Option 2 ID : 630680995026  
Option 3 ID : 630680995023  
Option 4 ID : 630680995025

**Q.9** An article is sold for ₹1,683 after giving three successive discounts of  $x\%$ , 10% and 12% on its marked price of ₹2,500. If a single discount of  $3x\%$  is given on the same marked price, then the selling price (in ₹) of the article will be:

- Ans**
- 1. 1,450
  - 2. 1,300
  - 3. 1,375
  - 4. 1,150

Question ID : 630680256273  
Option 1 ID : 630680995027  
Option 2 ID : 630680995029  
Option 3 ID : 630680995028  
Option 4 ID : 630680995030

**Q.10** What is the area (in  $\text{cm}^2$ ) of a circle that circumscribes a triangle with sides 28 cm, 45 cm and 53 cm?

- Ans**
- 1.  $702.25 \pi$
  - 2.  $729 \pi$
  - 3.  $784 \pi$
  - 4.  $506.25 \pi$

Question ID : 630680256280  
Option 1 ID : 630680995057  
Option 2 ID : 630680995058  
Option 3 ID : 630680995056  
Option 4 ID : 630680995055

**Q.11** Study the following table and answer the question:

Production and Export of cement by companies A and B from 2017 to 2020 (in million tonnes)

Year	Company			
	A		B	
	Production	Export	Production	Export
2017	250	170	320	190
2018	340	275	360	280
2019	370	220	425	320
2020	450	245	470	275

The total export of cement by both the companies in 2017 and 2019 is what percentage less than the total production of cement by the two companies in 2018 and 2020 (correct to one decimal place)?

- Ans**
- 1. 45.5%
  - 2. 44.4%
  - 3. 43.2%
  - 4. 43.8%

Question ID : 630680256283  
 Option 1 ID : 630680995070  
 Option 2 ID : 630680995069  
 Option 3 ID : 630680995067  
 Option 4 ID : 630680995068

**Q.12** A man covers a distance of 180 km at a speed of 45 km/h, the next 150 km at a speed of 50 km/h and the next 120 km at a speed of  $x$  km/h. If his average speed for the whole journey is  $47\frac{7}{19}$  km/h, then what is the value of  $x$  ?

- Ans**
- 1. 48
  - 2. 52
  - 3. 42
  - 4. 40

Question ID : 630680256268  
 Option 1 ID : 630680995009  
 Option 2 ID : 630680995010  
 Option 3 ID : 630680995008  
 Option 4 ID : 630680995007

**Q.13** The height of a cylinder inscribed in a sphere is 1.2 times the radius of the sphere. The radius of the sphere is 10 cm, and the volume of the cylinder is  $x\%$  of the volume of the sphere. The value of  $x$  is:

- Ans**
- 1. 58.2
  - 2. 56.4
  - 3. 60.4
  - 4. 57.6

Question ID : 630680256282  
 Option 1 ID : 630680995066  
 Option 2 ID : 630680995063  
 Option 3 ID : 630680995065  
 Option 4 ID : 630680995064

**Q.14** A loan of ₹13,500 is to be paid back in two equal annual instalments. If the rate of interest is 16% p.a. compounded annually, then what is the total interest paid in this instalment scheme?

- Ans**
- 1. ₹3,300
  - 2. ₹3,320
  - 3. ₹3,360
  - 4. ₹3,350

Question ID : 630680256277

Option 1 ID : 630680995044

Option 2 ID : 630680995043

Option 3 ID : 630680995046

Option 4 ID : 630680995045

**Q.15** A and B started a business by investing their capitals in the ratio  $\frac{5}{8} : \frac{3}{5}$ . After 6 months, A reduced his capital by 20% and B increased his capital by 50%. After 1 year, the share of A in the total profit was ₹15 lakhs. The total profit (in ₹ lakhs) was:

- Ans**
- 1. 35
  - 2. 27
  - 3. 40
  - 4. 30

Question ID : 630680256275

Option 1 ID : 630680995037

Option 2 ID : 630680995035

Option 3 ID : 630680995038

Option 4 ID : 630680995036

**Q.16** The speed of a boat going upstream is 40% of its speed going downstream. It takes a total time of  $4\frac{2}{3}$  hours in going 15 km upstream and the same distance downstream. What is the speed (in km/h) of the boat in still water?

- Ans**
- 1.  $8\frac{3}{8}$
  - 2.  $7\frac{7}{8}$
  - 3.  $7\frac{1}{2}$
  - 4.  $8\frac{1}{2}$

Question ID : 630680256278

Option 1 ID : 630680995050

Option 2 ID : 630680995048

Option 3 ID : 630680995047

Option 4 ID : 630680995049

**Q.17** Pipes A and B can fill a tank in 18 hours and 27 hours, respectively. Pipe C is an outlet pipe. When all the three pipes are opened for 15 hours, then  $\frac{5}{36}$  part of the tank is filled. How much time (in hours) will C alone take to empty one-third of the tank?

- Ans**
- 1. 4
  - 2. 3
  - 3. 6
  - 4. 5

Question ID : 630680256279  
 Option 1 ID : 630680995052  
 Option 2 ID : 630680995051  
 Option 3 ID : 630680995054  
 Option 4 ID : 630680995053

**Q.18** In a test consisting of 150 questions, a candidate correctly answers 60% of the first 90 questions. What percentage of the remaining questions does he need to answer correctly so that he has 64% of all the questions answered correctly in the test?

- Ans**
- 1. 68%
  - 2. 72%
  - 3. 70%
  - 4. 66%

Question ID : 630680256270  
 Option 1 ID : 630680995016  
 Option 2 ID : 630680995018  
 Option 3 ID : 630680995017  
 Option 4 ID : 630680995015

**Q.19** If  $x = \sqrt{19 + 4\sqrt{15}} - \sqrt{19 - 4\sqrt{15}}$ , then what is the value of  $x$  ?

- Ans**
- 1.  $2\sqrt{5}$
  - 2. 4
  - 3. 2
  - 4.  $8\sqrt{15}$

Question ID : 630680256266  
 Option 1 ID : 630680995001  
 Option 2 ID : 630680995000  
 Option 3 ID : 630680994999  
 Option 4 ID : 630680995002

**Q.20** A certain sum invested at 10% p.a. simple interest amounts to ₹9,417 in 4 years 4 months. What will be the amount of the same sum at  $12\frac{1}{2}\%$  p.a. in  $2\frac{2}{5}$  years at simple interest?

- Ans**
- 1. ₹8,641
  - 2. ₹8,531
  - 3. ₹8,541
  - 4. ₹8,631

Question ID : 630680256276

Option 1 ID : 630680995042

Option 2 ID : 630680995039

Option 3 ID : 630680995040

Option 4 ID : 630680995041

Section : Test of English Language and Comprehension

**Q.1** Select the most appropriate ANTONYM of the given word.

**Predictable**

- Ans**
- 1. Foreseeable
  - 2. Improbable
  - 3. Certain
  - 4. Expected

Question ID : 630680256291

Option 1 ID : 630680995100

Option 2 ID : 630680995101

Option 3 ID : 630680995102

Option 4 ID : 630680995099

**Q.2** Select the most appropriate meaning of the given idiom.

**Miss the boat**

- Ans**
- 1. Miss a chance
  - 2. Narrow escape
  - 3. Forget something important
  - 4. Miss travelling by boat

Question ID : 630680256287

Option 1 ID : 630680995084

Option 2 ID : 630680995086

Option 3 ID : 630680995083

Option 4 ID : 630680995085

Q.3 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. Two IAF MiG fighters from the Adampur base crashed following a mid-air collision.
- B. As a result, a fire broke out in four houses, and four boys playing in a field were wounded when the debris fell on them.
- C. The other fighter plane crashed in the fields of Chansu Jattan.
- D. According to reports, one plane crashed near Pensara.

- Ans
- 1. ABCD
  - 2. DCBA
  - 3. ACBD
  - 4. ADCB

Question ID : 630680256298  
Option 1 ID : 630680995127  
Option 2 ID : 630680995129  
Option 3 ID : 630680995130  
Option 4 ID : 630680995128

Q.4 Parts of the following sentence have been given as options. Select the option that contains an error.

It is so refreshing to walk through the beach early in the morning.

- Ans
- 1. refreshing to walk
  - 2. early in the morning
  - 3. through the beach
  - 4. It is so

Question ID : 630680256285  
Option 1 ID : 630680995076  
Option 2 ID : 630680995078  
Option 3 ID : 630680995077  
Option 4 ID : 630680995075

Q.5 Select the option that can be used as a one-word substitute for the given phrase.

A collection of weapons and military equipment

- Ans
- 1. Arsenal
  - 2. Archive
  - 3. Apiary
  - 4. Asylum

Question ID : 630680256296  
Option 1 ID : 630680995121  
Option 2 ID : 630680995119  
Option 3 ID : 630680995122  
Option 4 ID : 630680995120

Q.6 Select the most appropriate option to fill in the blanks.

My injured \_\_\_\_\_ will \_\_\_\_\_ soon.

- Ans
- 1. heel; heel
  - 2. heal; heel
  - 3. heel; heal
  - 4. heal; heal

Question ID : 630680256292  
Option 1 ID : 630680995103  
Option 2 ID : 630680995104  
Option 3 ID : 630680995105  
Option 4 ID : 630680995106

Q.7 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. We can request the public library to send us all the books that they will be replacing this year.
- B. However, I think, I have solution to this problem.
- C. That means, no books till the next academic session.
- D. Yesterday I was told that we had exhausted our library funds for this year.

- Ans
- 1. CBAD
  - 2. DBCA
  - 3. ABCD
  - 4. DCBA

Question ID : 630680256299  
Option 1 ID : 630680995132  
Option 2 ID : 630680995133  
Option 3 ID : 630680995131  
Option 4 ID : 630680995134

Q.8 Select the most appropriate option that can substitute the underlined word in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Post covid, international air travel is hopping back to normalcy.

- Ans
- 1. limping
  - 2. No substitution required
  - 3. faltering
  - 4. lumbering

Question ID : 630680256294  
Option 1 ID : 630680995112  
Option 2 ID : 630680995114  
Option 3 ID : 630680995113  
Option 4 ID : 630680995111

Q.9 Select the most appropriate meaning of the given idiom.

Short fuse

- Ans
- 1. Dangerous situation
  - 2. Control anger quickly
  - 3. A tricky problem
  - 4. Get angry quickly

Question ID : 630680256288

Option 1 ID : 630680995087

Option 2 ID : 630680995090

Option 3 ID : 630680995088

Option 4 ID : 630680995089

Q.10 Select the correctly spelt word.

- Ans
- 1. Competance
  - 2. Cammand
  - 3. Complexety
  - 4. Crucial

Question ID : 630680256290

Option 1 ID : 630680995096

Option 2 ID : 630680995098

Option 3 ID : 630680995097

Option 4 ID : 630680995095

Q.11 Select the most appropriate option that can substitute the underlined phrase in the given sentence. If there is no need to substitute it, select 'No substitution required'.

The Mysore palace is gearing up for the winter festival.

- Ans
- 1. setting up
  - 2. No substitution required
  - 3. fortifying
  - 4. dressing up

Question ID : 630680256295

Option 1 ID : 630680995115

Option 2 ID : 630680995118

Option 3 ID : 630680995117

Option 4 ID : 630680995116

Q.12 Select the most appropriate option to fill in the blank.

There is a \_\_\_\_\_ train from Mysore to Chennai.

- Ans
- 1. speedy
  - 2. brisk
  - 3. quick
  - 4. fast

Question ID : 630680256293  
Option 1 ID : 630680995109  
Option 2 ID : 630680995108  
Option 3 ID : 630680995107  
Option 4 ID : 630680995110

Q.13 Select the option that can be used as a one-word substitute for the given phrase.

The study of evolution of mankind

- Ans
- 1. Geology
  - 2. Archaeology
  - 3. Anthropology
  - 4. Cartography

Question ID : 630680256297  
Option 1 ID : 630680995126  
Option 2 ID : 630680995124  
Option 3 ID : 630680995123  
Option 4 ID : 630680995125

Q.14 Parts of the following sentence have been given as options. Select the option that contains an error.

Whether I do not agree with her views, I respect her for her honesty.

- Ans
- 1. for her honesty
  - 2. with her views
  - 3. I respect her
  - 4. Whether I do not agree

Question ID : 630680256286  
Option 1 ID : 630680995082  
Option 2 ID : 630680995080  
Option 3 ID : 630680995081  
Option 4 ID : 630680995079

Q.15 Select the INCORRECTLY spelt word.

- Ans
- 1. Associate
  - 2. Attendance
  - 3. Accept
  - 4. Alott

Question ID : 630680256289  
Option 1 ID : 630680995091  
Option 2 ID : 630680995092  
Option 3 ID : 630680995094  
Option 4 ID : 630680995093

**Comprehension:**

Read the given passage and answer the questions that follow.

"Any bicycle repair shop around? Can anyone share the location please?" That was a desperate appeal from a woman in our residents' association's WhatsApp group. Her child's bicycle needed urgent mending. "There is one around 2 km away." Soon came the first response. "No. The shop shut long ago, even before COVID," someone else chipped in. Where have the bicycle repairers gone? The wayside mechanics who would do a gamut of works on your bicycles for a paltry sum have almost gone extinct. These days, only children use bicycles, and you know a mechanic needs regular customers to survive. There is a time in almost everyone's life when they become proud owners of their first bicycle. And there comes a stage when we abandon the prized possession and graduate ourselves to a motorised vehicle. Unused and unattended, the bicycles rust and disintegrate and finally end up at scrap dealers. City roads in Kerala have now become totally unfriendly for bicycles. A cyclist is an odd man out on the chaotic road, an unwelcome disruptor among the automobiles arrogantly jostling for space. There are people out there who love to bicycle to their workplaces but dare not, dreading the reckless traffic on the way. Is speed synonymous with progress? The transition from bullock carts to bullet trains denotes mankind's journey toward development. However, passion for speed and more speed could trigger a gasping race to nowhere. To find time to relish the fruits of development, the curve has to slow down and plateau somewhere. A bicycle is silent like a butterfly, easy like a true friend to possess and maintain. A bicycle symbolises fine balancing, not just on its narrow wheels but a balanced living. This simple carbon-free mode of transport helps the rider to be healthy and heal the habitat. People who cycle to work tend to be less stressed out at workplaces. Motorcyclists whiz past, hiding their heads and thoughts in full-face helmets. Car owners roll up their glasses and cocoon their mind and body from the outside world. A cyclist pedals under the open sky, opens up to friends and fellows on the way and forgets one's own worries. It seems egalitarianism is part and parcel of the cycling culture.

SubQuestion No : 16

Q.16 Who is referred to as an 'unwelcome disrupter'?

- Ans
- 1. Scrap dealer
  - 2. Motorcyclist
  - 3. Cyclist
  - 4. Car owner

Question ID : 630680256302  
Option 1 ID : 630680995141  
Option 2 ID : 630680995139  
Option 3 ID : 630680995142  
Option 4 ID : 630680995140

**Comprehension:**

Read the given passage and answer the questions that follow.

"Any bicycle repair shop around? Can anyone share the location please?"

That was a desperate appeal from a woman in our residents' association's WhatsApp group. Her child's bicycle needed urgent mending.

"There is one around 2 km away." Soon came the first response.

"No. The shop shut long ago, even before COVID," someone else chipped in.

Where have the bicycle repairers gone? The wayside mechanics who would do a gamut of works on your bicycles for a paltry sum have almost gone extinct. These days, only children use bicycles, and you know a mechanic needs regular customers to survive. There is a time in almost everyone's life when they become proud owners of their first bicycle. And there comes a stage when we abandon the prized possession and graduate ourselves to a motorised vehicle. Unused and unattended, the bicycles rust and disintegrate and finally end up at scrap dealers.

City roads in Kerala have now become totally unfriendly for bicycles. A cyclist is an odd man out on the chaotic road, an unwelcome disruptor among the automobiles arrogantly jostling for space. There are people out there who love to bicycle to their workplaces but dare not, dreading the reckless traffic on the way.

Is speed synonymous with progress? The transition from bullock carts to bullet trains denotes mankind's journey toward development. However, passion for speed and more speed could trigger a gasping race to nowhere. To find time to relish the fruits of development, the curve has to slow down and plateau somewhere.

A bicycle is silent like a butterfly, easy like a true friend to possess and maintain. A bicycle symbolises fine balancing, not just on its narrow wheels but a balanced living. This simple carbon-free mode of transport helps the rider to be healthy and heal the habitat. People who cycle to work tend to be less stressed out at workplaces. Motorcyclists whiz past, hiding their heads and thoughts in full-face helmets. Car owners roll up their glasses and cocoon their mind and body from the outside world. A cyclist pedals under the open sky, opens up to friends and fellows on the way and forgets one's own worries. It seems egalitarianism is part and parcel of the cycling culture.

**SubQuestion No : 17**

**Q.17** Which of these advantages of a bicycle does the writer NOT mention in the passage?

**Ans**  1. It is an eco-friendly means of transport.

2. It symbolises balance in life.

3. It easily navigates in traffic jams.

4. It acts as stress buster.

Question ID : 630680256304

Option 1 ID : 630680995148

Option 2 ID : 630680995147

Option 3 ID : 630680995150

Option 4 ID : 630680995149

**Comprehension:**

Read the given passage and answer the questions that follow.

"Any bicycle repair shop around? Can anyone share the location please?"

That was a desperate appeal from a woman in our residents' association's WhatsApp group. Her child's bicycle needed urgent mending.

"There is one around 2 km away." Soon came the first response.

"No. The shop shut long ago, even before COVID," someone else chipped in.

Where have the bicycle repairers gone? The wayside mechanics who would do a gamut of works on your bicycles for a paltry sum have almost gone extinct. These days, only children use bicycles, and you know a mechanic needs regular customers to survive. There is a time in almost everyone's life when they become proud owners of their first bicycle. And there comes a stage when we abandon the prized possession and graduate ourselves to a motorised vehicle. Unused and unattended, the bicycles rust and disintegrate and finally end up at scrap dealers.

City roads in Kerala have now become totally unfriendly for bicycles. A cyclist is an odd man out on the chaotic road, an unwelcome disruptor among the automobiles arrogantly jostling for space. There are people out there who love to bicycle to their workplaces but dare not, dreading the reckless traffic on the way.

Is speed synonymous with progress? The transition from bullock carts to bullet trains denotes mankind's journey toward development. However, passion for speed and more speed could trigger a gasping race to nowhere. To find time to relish the fruits of development, the curve has to slow down and plateau somewhere.

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**SubQuestion No : 18**

**Q.18** Select the synonym of 'unfriendly' as used in the passage.

**Ans** ✓ 1. Inhospitable

✗ 2. Estranged

✗ 3. Aloof

✗ 4. Lonely

Question ID : 630680256303

Option 1 ID : 630680995144

Option 2 ID : 630680995145

Option 3 ID : 630680995143

Option 4 ID : 630680995146

**Comprehension:**

Read the given passage and answer the questions that follow.

"Any bicycle repair shop around? Can anyone share the location please?"

That was a desperate appeal from a woman in our residents' association's WhatsApp group. Her child's bicycle needed urgent mending.

"There is one around 2 km away." Soon came the first response.

"No. The shop shut long ago, even before COVID," someone else chipped in.

Where have the bicycle repairers gone? The wayside mechanics who would do a gamut of works on your bicycles for a paltry sum have almost gone extinct. These days, only children use bicycles, and you know a mechanic needs regular customers to survive. There is a time in almost everyone's life when they become proud owners of their first bicycle. And there comes a stage when we abandon the prized possession and graduate ourselves to a motorised vehicle. Unused and unattended, the bicycles rust and disintegrate and finally end up at scrap dealers.

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**SubQuestion No : 19**

**Q.19** What is the purpose of the conversation at the beginning the passage?

- Ans**
- 1. No particular purpose
  - 2. An interesting way of introducing the topic of disappearing cycle mechanics.
  - 3. To express anger against the disappearing cycle mechanics.
  - 4. To bring to everyone's notice the chaotic state of roads in Kerala.

Question ID : 630680256301

Option 1 ID : 630680995135

Option 2 ID : 630680995137

Option 3 ID : 630680995136

Option 4 ID : 630680995138

**Comprehension:**

Read the given passage and answer the questions that follow.

"Any bicycle repair shop around? Can anyone share the location please?"

That was a desperate appeal from a woman in our residents' association's WhatsApp group. Her child's bicycle needed urgent mending.

"There is one around 2 km away." Soon came the first response.

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Where have the bicycle repairers gone? The wayside mechanics who would do a gamut of works on your bicycles for a paltry sum have almost gone extinct. These days, only children use bicycles, and you know a mechanic needs regular customers to survive. There is a time in almost everyone's life when they become proud owners of their first bicycle. And there comes a stage when we abandon the prized possession and graduate ourselves to a motorised vehicle. Unused and unattended, the bicycles rust and disintegrate and finally end up at scrap dealers.

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Is speed synonymous with progress? The transition from bullock carts to bullet trains denotes mankind's journey toward development. However, passion for speed and more speed could trigger a gasping race to nowhere. To find time to relish the fruits of development, the curve has to slow down and plateau somewhere.

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**SubQuestion No : 20**

**Q.20** What does the writer mean when he says, "It seems egalitarianism is part and parcel of cycling culture"?

- Ans**
- 1. Cycling culture isolates the poor.
  - 2. Cycling culture encourages the polarisation of the community.
  - 3. Cycling promotes an elitist culture.
  - 4. Cycling symbolises the removal of inequalities among people.

Question ID : 630680256305

Option 1 ID : 630680995154

Option 2 ID : 630680995153

Option 3 ID : 630680995151

Option 4 ID : 630680995152

**Section : Test of Hindi Language and Comprehension**

**Q.1** 'तीन बेर खाती थीं ते वे तीन बेर खाती हैं।'

उक्त पंक्तियाँ, निम्न में से किस अलंकार का उदाहरण हैं?

- Ans**
- 1. यमक
  - 2. अनुप्रास
  - 3. उत्प्रेक्षा
  - 4. श्लेष

Question ID : 630680256314

Option 1 ID : 630680995190

Option 2 ID : 630680995187

Option 3 ID : 630680995189

Option 4 ID : 630680995188

Q.2 'बायीं ओर को घूमा हुआ' - इस वाक्यांश के लिए उपयुक्त शब्द का चयन करें।

- Ans
- 1. वसितव्य
  - 2. वामोरु
  - 3. वायव्य
  - 4. वामावर्त

Question ID : 630680256309

Option 1 ID : 630680995170

Option 2 ID : 630680995167

Option 3 ID : 630680995168

Option 4 ID : 630680995169

Q.3 'ठोकर लगी पहाड़ की, तोड़े घर की सील' - उक्त लोकोक्ति का कोई एक खंड अशुद्ध है। शुद्ध भाग का चयन करें।

- Ans
- 1. ठोकर लगी कंकड़ की
  - 2. तोड़े घर की खटिया
  - 3. तोड़े घर की सिल
  - 4. ठोकर लगी पत्थर की

Question ID : 630680256316

Option 1 ID : 630680995196

Option 2 ID : 630680995198

Option 3 ID : 630680995197

Option 4 ID : 630680995195

Q.4 निम्नलिखित में से शुद्ध वाक्य का चयन करें।

- Ans
- 1. सेठ माणिकचंद के घर रोज लड़ाई-झगड़ा हुआ करता था।
  - 2. जागुआ कहकर पुकारते जग्गू को लोग थे।
  - 3. लड़का जैसा सुन्दर है, सुशील भी और वैसा बुद्धिमान है।
  - 4. निकट का गुणी व्यक्ति कम सम्मान पर दूर का ज्यादा पाता है।

Question ID : 630680256306

Option 1 ID : 630680995157

Option 2 ID : 630680995158

Option 3 ID : 630680995155

Option 4 ID : 630680995156

Q.5 'मानुपदेश' शब्द के शुद्ध सन्धि-विच्छेद का चयन कीजिये।

- Ans
- 1. मातृ + उपदेश
  - 2. मातृ + ओपदेश
  - 3. मात्र + उपदेश
  - 4. मानु + उपदेश

Question ID : 630680256311

Option 1 ID : 630680995176

Option 2 ID : 630680995178

Option 3 ID : 630680995175

Option 4 ID : 630680995177

Q.6 'मेरे घर में एक \_\_\_\_\_ है। निम्न में से विदेशी शब्द चुनकर उक्त वाक्य को पूर्ण करें।

- Ans
- 1. घोंसला
  - 2. लोटा
  - 3. झरोखा
  - 4. नौकर

Question ID : 630680256320

Option 1 ID : 630680995212

Option 2 ID : 630680995214

Option 3 ID : 630680995211

Option 4 ID : 630680995213

Q.7 उपयुक्त 'करण कारक' चुनकर निम्न वाक्य को पूर्ण करें।

'\_\_\_\_\_ सुनी बात हमेशा सत्य होती है।'

- Ans
- 1. मेरी
  - 2. कानों
  - 3. कान
  - 4. आपकी

Question ID : 630680256310

Option 1 ID : 630680995172

Option 2 ID : 630680995174

Option 3 ID : 630680995173

Option 4 ID : 630680995171

Q.8 निम्नलिखित में से उस वाक्य का चयन करें जिसका पदक्रम शुद्ध हो?

- Ans
- 1. व्यापक और संकीर्ण अर्थों में इसकी परिभाषा निश्चित करने की चेष्टा की गयी है।
  - 2. इन शब्दशक्तियों पर आधार के काव्य की रचना होती है।
  - 3. इन आचार्यों ने रस को प्रधानता न देकर अलंकार में काव्य में प्रधानता दी है।
  - 4. अलंकृत करे किसी वस्तु को वह जो अलंकार है।

Question ID : 630680256307

Option 1 ID : 630680995162

Option 2 ID : 630680995161

Option 3 ID : 630680995160

Option 4 ID : 630680995159

Q.9 'पीपर पात सरिस मन डोला'

उपर्युक्त पंक्ति में मुख्यतः कौन सा अलंकार है?

- Ans
- 1. उत्प्रेक्षा
  - 2. रूपक
  - 3. उपमा
  - 4. अतिशयोक्ति

Question ID : 630680256313

Option 1 ID : 630680995185

Option 2 ID : 630680995184

Option 3 ID : 630680995183

Option 4 ID : 630680995186

Q.10 दिए गए शब्दों में से 'गरल' के विलोमार्थी शब्द की पहचान करें।

- Ans
- 1. औरस
  - 2. विरल
  - 3. सुधा
  - 4. कालकूट

Question ID : 630680256318

Option 1 ID : 630680995204

Option 2 ID : 630680995206

Option 3 ID : 630680995203

Option 4 ID : 630680995205

Q.11 'अथक \_\_\_\_\_ और सतत लगन से कोई भी व्यवसाय चरमसीमा प्राप्त कर सकता है।'

स्व विवेकानुसार उचित शब्द चुनकर, उपरोक्त वाक्य में रिक्त स्थान की पूर्ति करें।

- Ans
- 1. ज्ञान
  - 2. परिश्रम
  - 3. व्यवहार
  - 4. जानकारी

Question ID : 630680256308

Option 1 ID : 630680995164

Option 2 ID : 630680995163

Option 3 ID : 630680995166

Option 4 ID : 630680995165

Q.12 जीभ पर लक्ष्मी बसना - अशुद्ध मुहावरे के रेखांकित शब्द को सही शब्द से बदलें।

- Ans
- 1. कौस्तुभी
  - 2. इंदुमती
  - 3. सरस्वती
  - 4. पार्वती

Question ID : 630680256315

Option 1 ID : 630680995191

Option 2 ID : 630680995194

Option 3 ID : 630680995192

Option 4 ID : 630680995193

Q.13 'जीवन तो क्षणभंगुर होता है।'

उचित पर्यायवाची शब्द चुनकर रेखांकित शब्द को प्रतिस्थापित करें।

- Ans
- 1. यक्ष
  - 2. नश्वर
  - 3. स्वत्व
  - 4. कृश

Question ID : 630680256317

Option 1 ID : 630680995199

Option 2 ID : 630680995200

Option 3 ID : 630680995202

Option 4 ID : 630680995201

Q.14 'इस सोसाइटी में \_\_\_\_\_ रहते हैं।'

उस शब्द का चयन करके वाक्य पूर्ण करें जो 'समाहार छंद' का उदाहरण हो।

- Ans  1. सेठ-साहूकार  
 2. हष्ट-पुष्ट  
 3. परिवार  
 4. स्त्री-पुरुष

Question ID : 630680256312

Option 1 ID : 630680995180

Option 2 ID : 630680995181

Option 3 ID : 630680995182

Option 4 ID : 630680995179

Q.15 'वर्द्धिकि-रेखांकित शब्द का उपयुक्त तद्भव रूप चुनकर निम्न वाक्य को पूर्ण करें।

'इस \_\_\_\_\_ के पैसे दे दो।'

- Ans  1. दुकानदार  
 2. बनिया  
 3. बढ़ई  
 4. भाई

Question ID : 630680256319

Option 1 ID : 630680995208

Option 2 ID : 630680995207

Option 3 ID : 630680995210

Option 4 ID : 630680995209

#### Comprehension:

दिए गए गद्यांश को ध्यान से पढ़े और प्रश्न के उत्तर दें।

डॉ. रामकुमार वर्मा ने ऐतिहासिक एवं समस्या मूलक एकांकियों रचना की है। उनके एकांकियों का मूल स्वर आदर्शवादी है। प्रेम, सेवा, उदारता, त्याग और बलिदान की भावनाओं से ओतप्रोत इन ऐतिहासिक एकांकियों में भारत के अतीत गौरव को प्रस्तुत करते हुए राष्ट्रीयता की भावना जगाने का प्रयास किया गया है। समस्यामूलक एकांकियों में वर्मा जी ने शिक्षित मध्यमवर्गीय दंपतियों की अनेक समस्याओं प्रेम, सहवास, संदेह, दंभ आदि को कथानक का विषय बनाया है, किंतु उनकी परिणति आदर्श में हुई है क्योंकि उनके की एकांकियों नायिकाएं अंततः अपने पति के सम्मान की रक्षा करती हुई दिखाई पड़ती हैं, यथा 'रेशमी टाई', 'ललिता' और 'एक्ट्रेस' एकांकी की नायिका प्रभाव कुमारी। अतिशय आदर्शवाद के कारण वर्मा जी के एकांकी यथार्थ से दूर हो गए जान पड़ते हैं, किंतु एकांकी शिल्प की दृष्टि से वे हिंदी के युग प्रवर्तक एकांकी माने जा सकते हैं। आरंभ, कुतूहल, संकलन त्रय, चरम सीमा आदि तत्व उनके एकांकियों में बड़ी सूक्ष्मता से विद्यमान हैं। रंगमंचीयता एवं अभिनेयता के गुणों से भी उनके एकांकी संपन्न हैं तथा उनमें सरसता के साथ-साथ शिल्प की पौढ़ता भी विद्यमान है। वस्तुतः एकांकी कला को चरम पर पहुंचाने का श्रेय डॉ रामकुमार वर्मा को ही दिया जाता है।

#### SubQuestion No : 16

Q.16 उपर्युक्त गद्यांश के लिए उचित शीर्षक का चयन करें।

- Ans  1. डॉ. रामकुमार वर्मा के एकांकी  
 2. एकांकी शिल्प और डॉ. रामकुमार वर्मा  
 3. एकांकियों की विषय-वस्तु  
 4. एकांकी कला और शिल्प

Question ID : 630680256325

Option 1 ID : 630680995230

Option 2 ID : 630680995229

Option 3 ID : 630680995227

Option 4 ID : 630680995228

**Comprehension:**

दिए गए गद्यांश को ध्यान से पढ़ें और प्रश्न के उत्तर दें।

डॉ. रामकुमार वर्मा ने ऐतिहासिक एवं समस्या मूलक एकांकियों रचना की है। उनके एकांकियों का मूल स्वर आदर्शवादी है। प्रेम, सेवा, उदारता, त्याग और बलिदान की भावनाओं से ओतप्रोत इन ऐतिहासिक एकांकियों में भारत के अतीत गौरव को प्रस्तुत करते हुए राष्ट्रीयता की भावना जगाने का प्रयास किया गया है। समस्यामूलक एकांकियों में वर्मा जी ने शिक्षित मध्यमवर्गीय दंपतियों की अनेक समस्याओं प्रेम, सहवास, संदेह, दंभ आदि को कथानक का विषय बनाया है, किंतु उनकी परिणति आदर्श में हुई है क्योंकि उनके की एकांकियों नायिकाएं अंततः अपने पति के सम्मान की रक्षा करती हुई दिखाई पड़ती हैं, यथा 'रेशमी टाई', 'ललिता' और 'एक्ट्रेस' एकांकी की नायिका प्रभाव कुमारी। अतिशय आदर्शवाद के कारण वर्मा जी के एकांकी यथार्थ से दूर हो गए जान पड़ते हैं, किंतु एकांकी शिल्प की दृष्टि से वे हिंदी के युग प्रवर्तक एकांकी माने जा सकते हैं। आरंभ, कुतूहल, संकलन त्रय, चरम सीमा आदि तत्व उनके एकांकियों में बड़ी सूक्ष्मता से विद्यमान हैं। रंगमंचीयता एवं अभिनेयता के गुणों से भी उनके एकांकी संपन्न हैं तथा उनमें सरसता के साथ-साथ शिल्प की पौढ़ता भी विद्यमान है। वस्तुतः एकांकी कला को चरम पर पहुंचाने का श्रेय डॉ रामकुमार वर्मा को ही दिया जाता है।

**SubQuestion No : 17**

Q.17 'पौढ़ता' के विपरीतार्थक शब्द का चयन कीजिये।

- Ans  1. अप्रौढ़ता  
 2. बौद्धमपन  
 3. निजता  
 4. परिपक्वता

Question ID : 630680256322

Option 1 ID : 630680995216

Option 2 ID : 630680995217

Option 3 ID : 630680995218

Option 4 ID : 630680995215

**Comprehension:**

दिए गए गद्यांश को ध्यान से पढ़ें और प्रश्न के उत्तर दें।

डॉ. रामकुमार वर्मा ने ऐतिहासिक एवं समस्या मूलक एकांकियों रचना की है। उनके एकांकियों का मूल स्वर आदर्शवादी है। प्रेम, सेवा, उदारता, त्याग और बलिदान की भावनाओं से ओतप्रोत इन ऐतिहासिक एकांकियों में भारत के अतीत गौरव को प्रस्तुत करते हुए राष्ट्रीयता की भावना जगाने का प्रयास किया गया है। समस्यामूलक एकांकियों में वर्मा जी ने शिक्षित मध्यमवर्गीय दंपतियों की अनेक समस्याओं प्रेम, सहवास, संदेह, दंभ आदि को कथानक का विषय बनाया है, किंतु उनकी परिणति आदर्श में हुई है क्योंकि उनके की एकांकियों नायिकाएं अंततः अपने पति के सम्मान की रक्षा करती हुई दिखाई पड़ती हैं, यथा 'रेशमी टाई', 'ललिता' और 'एक्ट्रेस' एकांकी की नायिका प्रभाव कुमारी। अतिशय आदर्शवाद के कारण वर्मा जी के एकांकी यथार्थ से दूर हो गए जान पड़ते हैं, किंतु एकांकी शिल्प की दृष्टि से वे हिंदी के युग प्रवर्तक एकांकी माने जा सकते हैं। आरंभ, कुतूहल, संकलन त्रय, चरम सीमा आदि तत्व उनके एकांकियों में बड़ी सूक्ष्मता से विद्यमान हैं। रंगमंचीयता एवं अभिनेयता के गुणों से भी उनके एकांकी संपन्न हैं तथा उनमें सरसता के साथ-साथ शिल्प की पौढ़ता भी विद्यमान है। वस्तुतः एकांकी कला को चरम पर पहुंचाने का श्रेय डॉ रामकुमार वर्मा को ही दिया जाता है।

**SubQuestion No : 18**

Q.18 उपर्युक्त अवतरण किस शैली में लिखा गया है?

- Ans  1. वर्णनात्मक  
 2. आत्मपरक  
 3. विवरणात्मक  
 4. आलोचनात्मक

Question ID : 630680256326

Option 1 ID : 630680995233

Option 2 ID : 630680995234

Option 3 ID : 630680995231

Option 4 ID : 630680995232

**Comprehension:**

दिए गए गद्यांश को ध्यान से पढ़ें और प्रश्न के उत्तर दें।

डॉ. रामकुमार वर्मा ने ऐतिहासिक एवं समस्या मूलक एकांकियों रचना की है। उनके एकांकियों का मूल स्वर आदर्शवादी है। प्रेम, सेवा, उदारता, त्याग और बलिदान की भावनाओं से ओतप्रोत इन ऐतिहासिक एकांकियों में भारत के अतीत गौरव को प्रस्तुत करते हुए राष्ट्रीयता की भावना जगाने का प्रयास किया गया है। समस्यामूलक एकांकियों में वर्मा जी ने शिक्षित मध्यमवर्गीय दंपतियों की अनेक समस्याओं प्रेम, सहवास, संदेह, दंभ आदि को कथानक का विषय बनाया है, किंतु उनकी परिणति आदर्श में हुई है क्योंकि उनके की एकांकियों नायिकाएं अंततः अपने पति के सम्मान की रक्षा करती हुई दिखाई पड़ती हैं, यथा 'रेशमी टाई', 'ललिता' और 'एक्ट्रेस' एकांकी की नायिका प्रभाव कुमारी। अतिशय आदर्शवाद के कारण वर्मा जी के एकांकी यथार्थ से दूर हो गए जान पड़ते हैं, किंतु एकांकी शिल्प की दृष्टि से वे हिंदी के युग प्रवर्तक एकांकी माने जा सकते हैं। आरंभ, कुतूहल, संकलन त्रय, चरम सीमा आदि तत्व उनके एकांकियों में बड़ी सूक्ष्मता से विद्यमान हैं। रंगमंचीयता एवं अभिनेयता के गुणों से भी उनके एकांकी संपन्न हैं तथा उनमें सरसता के साथ-साथ शिल्प की पौढ़ता भी विद्यमान है। वस्तुतः एकांकी कला को चरम पर पहुंचाने का श्रेय डॉ रामकुमार वर्मा को ही दिया जाता है।

**SubQuestion No : 19**

Q.19 निम्नलिखित में से किस वाक्य में 'परिणति' शब्द का उचित प्रयोग किया गया है?

- Ans  1. दूल्हा-दुल्हन का परिणति संस्कार संपन्न हो गया।  
 2. आपके व्यवहार की परिणति है कि इतने लोग आपको पसंद करते हैं।  
 3. आपकी उम्र में परिणति हो जानी चाहिए।  
 4. उसने नौकरी पाने की अच्छी परिणति खो दी।

Question ID : 630680256324

Option 1 ID : 630680995223

Option 2 ID : 630680995225

Option 3 ID : 630680995224

Option 4 ID : 630680995226

**Comprehension:**

दिए गए गद्यांश को ध्यान से पढ़ें और प्रश्न के उत्तर दें।

डॉ. रामकुमार वर्मा ने ऐतिहासिक एवं समस्या मूलक एकांकियों रचना की है। उनके एकांकियों का मूल स्वर आदर्शवादी है। प्रेम, सेवा, उदारता, त्याग और बलिदान की भावनाओं से ओतप्रोत इन ऐतिहासिक एकांकियों में भारत के अतीत गौरव को प्रस्तुत करते हुए राष्ट्रीयता की भावना जगाने का प्रयास किया गया है। समस्यामूलक एकांकियों में वर्मा जी ने शिक्षित मध्यमवर्गीय दंपतियों की अनेक समस्याओं प्रेम, सहवास, संदेह, दंभ आदि को कथानक का विषय बनाया है, किंतु उनकी परिणति आदर्श में हुई है क्योंकि उनके की एकांकियों नायिकाएं अंततः अपने पति के सम्मान की रक्षा करती हुई दिखाई पड़ती हैं, यथा 'रेशमी टाई', 'ललिता' और 'एक्ट्रेस' एकांकी की नायिका प्रभाव कुमारी। अतिशय आदर्शवाद के कारण वर्मा जी के एकांकी यथार्थ से दूर हो गए जान पड़ते हैं, किंतु एकांकी शिल्प की दृष्टि से वे हिंदी के युग प्रवर्तक एकांकी माने जा सकते हैं। आरंभ, कुतूहल, संकलन त्रय, चरम सीमा आदि तत्व उनके एकांकियों में बड़ी सूक्ष्मता से विद्यमान हैं। रंगमंचीयता एवं अभिनेयता के गुणों से भी उनके एकांकी संपन्न हैं तथा उनमें सरसता के साथ-साथ शिल्प की पौढ़ता भी विद्यमान है। वस्तुतः एकांकी कला को चरम पर पहुंचाने का श्रेय डॉ रामकुमार वर्मा को ही दिया जाता है।

**SubQuestion No : 20**

Q.20 निम्नलिखित में से कौन-सा शब्द 'सम्मान' का पर्यायवाची नहीं है?

- Ans  1. सरंजाम  
 2. प्रतिष्ठा  
 3. आदर  
 4. आवभगत

Question ID : 630680256323

Option 1 ID : 630680995219

Option 2 ID : 630680995220

Option 3 ID : 630680995221

Option 4 ID : 630680995222

**Q.1** Too many packets present in (a part of) the network causes packet delay and loss that degrades performance. This situation is referred to as \_\_\_\_\_.

- Ans**
- 1. throttling
  - 2. chocking
  - 3. congestion
  - 4. collapse

Question ID : 630680256333  
Option 1 ID : 630680995260  
Option 2 ID : 630680995259  
Option 3 ID : 630680995262  
Option 4 ID : 630680995261

**Q.2** With reference to CSS, which of the following allows to change property values smoothly over a given duration?

- Ans**
- 1. Masking
  - 2. Transitions
  - 3. Web Fonts
  - 4. Text Effects

Question ID : 630680256367  
Option 1 ID : 630680995398  
Option 2 ID : 630680995395  
Option 3 ID : 630680995397  
Option 4 ID : 630680995396

**Q.3** Which of the following identifies, controls, audits and reports modifications that invariably occur while software is being developed and after it has been released to a customer?

- Ans**
- 1. Software Process Model
  - 2. Software Quality Assurance
  - 3. Software Cost Estimation
  - 4. Software Configuration Management

Question ID : 630680256353  
Option 1 ID : 630680995339  
Option 2 ID : 630680995340  
Option 3 ID : 630680995342  
Option 4 ID : 630680995341

Q.4 Which of the following is an illusion of an extremely large main memory?

- Ans
- 1. Cache memory
  - 2. Virtual memory
  - 3. Hard Disk
  - 4. Associative memory

Question ID : 630680256357

Option 1 ID : 630680995355

Option 2 ID : 630680995357

Option 3 ID : 630680995356

Option 4 ID : 630680995358

Q.5 Which of the following is a relational operator in the C programming language?

- Ans
- 1. &&
  - 2. !
  - 3. !=
  - 4. ||

Question ID : 630680256327

Option 1 ID : 630680995235

Option 2 ID : 630680995237

Option 3 ID : 630680995236

Option 4 ID : 630680995238

Q.6 Which of the following statements is/are true with reference to java servlets?

- (i) A Servlet is a Java program that runs without a web server.
- (ii) It receives the requests and responds to them using related protocols (usually HTTP).

- Ans
- 1. Only (i)
  - 2. Both (i) and (ii)
  - 3. Neither (i) nor (ii)
  - 4. Only (ii)

Question ID : 630680256391

Option 1 ID : 630680995491

Option 2 ID : 630680995493

Option 3 ID : 630680995494

Option 4 ID : 630680995492

**Q.7** Which of the following refers to focusing on determining, organising, directing, facilitating and monitoring knowledge-related practices and activities required to achieve the desired business strategies and objectives with reference to knowledge management in organisations?

- Ans**
- 1. Business point of view
  - 2. Education point of view
  - 3. Hands-on operational point of view
  - 4. Management point of view

Question ID : 630680256415

Option 1 ID : 630680995587

Option 2 ID : 630680995590

Option 3 ID : 630680995589

Option 4 ID : 630680995588

**Q.8** Which of the following refers to a system test that forces a software to fail in a variety of ways and verifies that recovery is properly performed?

- Ans**
- 1. Recovery testing
  - 2. Stress testing
  - 3. Security testing
  - 4. Performance testing

Question ID : 630680256355

Option 1 ID : 630680995350

Option 2 ID : 630680995348

Option 3 ID : 630680995349

Option 4 ID : 630680995347

**Q.9** By default, the BASH shell of the Linux environment has a \_\_\_\_\_ prompt.

- Ans**
- 1. #
  - 2. &
  - 3. \$
  - 4. %

Question ID : 630680256401

Option 1 ID : 630680995532

Option 2 ID : 630680995531

Option 3 ID : 630680995534

Option 4 ID : 630680995533

Q.10 Which of the following is NV RAM memory that retains its data even when turned off?

- Ans
- 1. Cache memory
  - 2. Flash memory
  - 3. Register memory
  - 4. Main memory

Question ID : 630680256348

Option 1 ID : 630680995321

Option 2 ID : 630680995322

Option 3 ID : 630680995320

Option 4 ID : 630680995319

Q.11 Which of the following is NOT a method of solving quadratic equations?

- Ans
- 1. By completing the square
  - 2. By using the quadratic formula
  - 3. By factorisation
  - 4. By using convergence

Question ID : 630680256382

Option 1 ID : 630680995456

Option 2 ID : 630680995457

Option 3 ID : 630680995455

Option 4 ID : 630680995458

Q.12 The technology of .Net is developed by \_\_\_\_\_ and was launched in \_\_\_\_\_.

- Ans
- 1. Microsoft; 2002
  - 2. Oracle; 2002
  - 3. Microsoft; 2010
  - 4. Google; 2002

Question ID : 630680256395

Option 1 ID : 630680995510

Option 2 ID : 630680995507

Option 3 ID : 630680995508

Option 4 ID : 630680995509

Q.13 Which of the following is a software application that helps developers to build attractive website layouts and apps with ease?

- Ans
- 1. Database design tools
  - 2. Front-end development tools
  - 3. Logic programming tools
  - 4. Back-end development tools

Question ID : 630680256344

Option 1 ID : 630680995305

Option 2 ID : 630680995304

Option 3 ID : 630680995306

Option 4 ID : 630680995303

Q.14 A cube is a square prism. If all the sides of a cube are  $x$ , then volume = \_\_\_\_\_ and surface area = \_\_\_\_\_.

- Ans
- 1.  $x^3$ ;  $6x^2$
  - 2.  $x^2$ ;  $6x^3$
  - 3.  $6x^3$ ;  $x^2$
  - 4.  $6x^2$ ;  $x^3$

Question ID : 630680256385

Option 1 ID : 630680995469

Option 2 ID : 630680995468

Option 3 ID : 630680995470

Option 4 ID : 630680995467

Q.15 Which of the following is a valid syntax for the XML element in a DTD?

- Ans
- 1. `<!ELEMENT element-name category>`
  - 2. `<!ATTLIST element-name attribute-name attribute-type attribute-value>`
  - 3. `<#ELEMENT element-name category>`
  - 4. `<!ENTITY entity-name "entity-value">`

Question ID : 630680256369

Option 1 ID : 630680995405

Option 2 ID : 630680995403

Option 3 ID : 630680995406

Option 4 ID : 630680995404

Q.16 Which of the following statements is FALSE?

- Ans
- 1. Microkernel is smaller in size.
  - 2. It is not easy to extend a Monolithic kernel.
  - 3.

In Monolithic kernel, both user services and kernel services are kept in a separate address space.

- 4. To design a Microkernel, more codes are required.

Question ID : 630680256358

Option 1 ID : 630680995359

Option 2 ID : 630680995362

Option 3 ID : 630680995361

Option 4 ID : 630680995360

Q.17 Which of the following process models are the oldest software engineering paradigms and suggest a linear process flow that is often inconsistent with modern realities?

- Ans
- 1. Incremental Process Models
  - 2. Sequential Process Models
  - 3. Evolutionary Process Models
  - 4. Concurrent Process Models

Question ID : 630680256352

Option 1 ID : 630680995336

Option 2 ID : 630680995335

Option 3 ID : 630680995338

Option 4 ID : 630680995337

Q.18 What is the output of the following java program?

```
public class Solution{  
    public static void main(String[] args){  
        int[] p = {121, 201, 017};  
        for(int j = 0; j < p.length; j++){  
            System.out.print(p[j] + " ");  
        }  
    }  
}
```

- Ans
- 1. 121 201 17
  - 2. 121 201 15
  - 3. Compilation error
  - 4. Runtime error

Question ID : 630680256390  
Option 1 ID : 630680995488  
Option 2 ID : 630680995487  
Option 3 ID : 630680995489  
Option 4 ID : 630680995490

Q.19 The demand is said to be \_\_\_\_\_ when a very insignificant change in price leads to an infinite change in quantity demanded.

- Ans
- 1. perfectly inelastic
  - 2. relatively elastic
  - 3. relatively inelastic
  - 4. perfectly elastic

Question ID : 630680256400  
Option 1 ID : 630680995527  
Option 2 ID : 630680995529  
Option 3 ID : 630680995530  
Option 4 ID : 630680995528

Q.20 Which of the following displays uses an electron beam that operates like a pencil to create a line image on the CRT screen?

- Ans
- 1. Rotate Scan
  - 2. Roster Scan
  - 3. Random Scan
  - 4. Raster Scan

Question ID : 630680256366  
Option 1 ID : 630680995394  
Option 2 ID : 630680995391  
Option 3 ID : 630680995393  
Option 4 ID : 630680995392

Section : Discipline2

Q.1 Consider the following data set: 6, 20, 25, 63, 92, 101. What is the range of the data set?

- Ans
- 1. 63
  - 2. 6
  - 3. 95
  - 4. 101

Question ID : 630680256378  
Option 1 ID : 630680995439  
Option 2 ID : 630680995441  
Option 3 ID : 630680995442  
Option 4 ID : 630680995440

Q.2 Which of the following is a graphical representation of an algorithm?

- Ans
- 1. Flowchart
  - 2. Source code
  - 3. Program
  - 4. Pseudo code

Question ID : 630680256372  
Option 1 ID : 630680995415  
Option 2 ID : 630680995418  
Option 3 ID : 630680995417  
Option 4 ID : 630680995416

**Q.3** In connectionless services offered by the network layer, packets are injected into the network individually and routed independently of each other. In this context, the packets are frequently called \_\_\_\_\_, and the network is called a \_\_\_\_\_ network.

- Ans**
- 1. datagrams; virtual-circuit
  - 2. datagrams; datagram
  - 3. virtual circuits; datagram
  - 4. virtual circuits; virtual-circuit

Question ID : 630680256331  
Option 1 ID : 630680995253  
Option 2 ID : 630680995251  
Option 3 ID : 630680995254  
Option 4 ID : 630680995252

**Q.4** Which of the following can be used for the frontend or user interface while developing a web application?

- Ans**
- 1. JavaScript
  - 2. PHP
  - 3. Django
  - 4. SQL

Question ID : 630680256392  
Option 1 ID : 630680995497  
Option 2 ID : 630680995498  
Option 3 ID : 630680995495  
Option 4 ID : 630680995496

**Q.5** Any process in the transport layer wishing to remotely retrieve mail from a host can connect to the destination host's port \_\_\_\_\_ to contact its IMAP daemon.

- Ans**
- 1. 443
  - 2. 80
  - 3. 143
  - 4. 20

Question ID : 630680256336  
Option 1 ID : 630680995274  
Option 2 ID : 630680995272  
Option 3 ID : 630680995271  
Option 4 ID : 630680995273

**Q.6** Which of the following refers to expertise and skills acquired by a person through experience or education, the theoretical or practical understanding of a subject?

- Ans**
- 1. Synthesis
  - 2. Reference
  - 3. Knowledge
  - 4. Problem solving

Question ID : 630680256414  
Option 1 ID : 630680995586  
Option 2 ID : 630680995584  
Option 3 ID : 630680995585  
Option 4 ID : 630680995583

**Q.7** Which of the following software quality factors refers to the degree to which the software makes optimal use of system resources as indicated by the sub-attributes time behaviour and resource behaviour?

- Ans**
- 1. Maintainability
  - 2. Usability
  - 3. Portability
  - 4. Efficiency

Question ID : 630680256354  
Option 1 ID : 630680995345  
Option 2 ID : 630680995343  
Option 3 ID : 630680995346  
Option 4 ID : 630680995344

**Q.8** Which of the following is a type of Discrete Probability Distribution?

- Ans**
- 1. Log-Normal Distribution
  - 2. Exponential Distribution
  - 3. Normal Distribution
  - 4. Poisson Distribution

Question ID : 630680256377  
Option 1 ID : 630680995438  
Option 2 ID : 630680995437  
Option 3 ID : 630680995436  
Option 4 ID : 630680995435

**Q.9** Which of the following is a router in a foreign network to which the mobile node is currently connected with reference to mobile communication?

- Ans**
- 1. Foreign agent
  - 2. Home agent
  - 3. Foreign agent COA
  - 4. Co-located COA

Question ID : 630680256407

Option 1 ID : 630680995558

Option 2 ID : 630680995557

Option 3 ID : 630680995556

Option 4 ID : 630680995555

**Q.10** Which of the following are two arguments that 'chmod' takes to change different permission configurations of files in KDE Linux shell?

- Ans**
- 1. Permission changes and network names
  - 2. Permission changes and user names
  - 3. Permission changes and system names
  - 4. Permission changes and file names

Question ID : 630680256403

Option 1 ID : 630680995542





Option 2 ID : 630680995539

Option 3 ID : 630680995541

Option 4 ID : 630680995540

**Q.11** Which of the following symbols of a flow chart represents the processing phase?

**Ans**

- 1. 
- 2. 
- 3. 
- 4. 

Question ID : 630680256412

Option 1 ID : 630680995578

Option 2 ID : 630680995576

Option 3 ID : 630680995575

Option 4 ID : 630680995577

**Q.12** Which of the following curves is particularly a kind of spline generated from a set of control points by forming a set of polynomial functions with reference to computer graphics?

- Ans**
- 1. Explicit
  - 2. Parametric
  - 3. Implicit
  - 4. Bezier

Question ID : 630680256365

Option 1 ID : 630680995388

Option 2 ID : 630680995389

Option 3 ID : 630680995387

Option 4 ID : 630680995390

**Q.13** Which of the following refers to messages sent from transport entity to transport entity in the transport layer of the ISO/OSI network model?

- Ans**
- 1. Packet
  - 2. Block
  - 3. Frame
  - 4. Segment

Question ID : 630680256334

Option 1 ID : 630680995266

Option 2 ID : 630680995263

Option 3 ID : 630680995265

Option 4 ID : 630680995264

**Q.14** Which of the following is defined as that branch of economic analysis that studies the economic behaviour of the individual unit and may be a person, a particular household or a particular firm?

- Ans**
- 1. International Economics
  - 2. Macro Economics
  - 3. Environmental Economics
  - 4. Micro Economics

Question ID : 630680256397

Option 1 ID : 630680995517

Option 2 ID : 630680995516

Option 3 ID : 630680995518

Option 4 ID : 630680995515

Q.15 In Cohen Sutherland Line clipping algorithm, if a line \_\_\_\_\_ the clipping window, then the line is required to clip as it is considered partially visible.

- Ans
- 1. falls inside
  - 2. falls outside
  - 3. intersects
  - 4. falls on

Question ID : 630680256364

Option 1 ID : 630680995383

Option 2 ID : 630680995385

Option 3 ID : 630680995384

Option 4 ID : 630680995386

Q.16 What is the output of following C program?

```
#include<stdio.h>
int main()
{
    int x = 8, *y, z;
    y = &x;
    printf("%d\n", x * *y * x + *y);
    return 0;
}
```

- Ans
- 1. 8
  - 2. Runtime error
  - 3. 520
  - 4. Compilation error

Question ID : 630680256330

Option 1 ID : 630680995250

Option 2 ID : 630680995249

Option 3 ID : 630680995247

Option 4 ID : 630680995248

Q.17 Which of the following options describes the desirable property of a good operating system?

- Ans
- 1. Low throughput and low turnaround time
  - 2. High throughput and high turnaround time
  - 3. Low throughput and high turnaround time
  - 4. High throughput and low turnaround time

Question ID : 630680256359

Option 1 ID : 630680995365

Option 2 ID : 630680995366

Option 3 ID : 630680995363

Option 4 ID : 630680995364

**Q.18** Which step of the knowledge management process involves adding value by discovering relationships, abstracting and sharing?

- Ans**
- 1. Knowledge refining
  - 2. Knowledge gathering or acquisition
  - 3. Knowledge organisation
  - 4. Knowledge sharing

Question ID : 630680256416  
Option 1 ID : 630680995593  
Option 2 ID : 630680995591  
Option 3 ID : 630680995592  
Option 4 ID : 630680995594

**Q.19** Which of the following ciphers reorders the letters but does NOT disguise them?

- Ans**
- 1. Quantum
  - 2. One time pad
  - 3. Transposition
  - 4. Substitution

Question ID : 630680256337  
Option 1 ID : 630680995278  
Option 2 ID : 630680995276  
Option 3 ID : 630680995277  
Option 4 ID : 630680995275

**Q.20** Which of the following is an action or occurrence such as a mouse click, a key press, mouse movements or any system-generated notification in ASP.NET?

- Ans**
- 1. Directive
  - 2. Validator
  - 3. Control
  - 4. Event

Question ID : 630680256396  
Option 1 ID : 630680995512  
Option 2 ID : 630680995514  
Option 3 ID : 630680995511  
Option 4 ID : 630680995513

Q.1 Which characteristic of business refers to 'various components of a business system are highly interacting and interdependent'?

- Ans
- 1. Interdependence
  - 2. Complexity
  - 3. Creativity
  - 4. Goal-orientation

Question ID : 630680256375  
Option 1 ID : 630680995430  
Option 2 ID : 630680995429  
Option 3 ID : 630680995428  
Option 4 ID : 630680995427

Q.2 Suppose we are given values of  $y = f(x)$  for a set of values of  $x$ , the process of finding the value of  $y$  corresponding to any value of  $x = x_i$  between  $x_0$  and  $x_n$  is called \_\_\_\_\_.

- Ans
- 1. bias
  - 2. variance
  - 3. hypothesis
  - 4. interpolation

Question ID : 630680256409  
Option 1 ID : 630680995564  
Option 2 ID : 630680995566  
Option 3 ID : 630680995565  
Option 4 ID : 630680995563

Q.3 Which of the following is NOT a front-end design tool?

- Ans
- 1. Angular JS
  - 2. PHP
  - 3. Chrome Dev Tools
  - 4. jQuery

Question ID : 630680256342  
Option 1 ID : 630680995295  
Option 2 ID : 630680995298  
Option 3 ID : 630680995297  
Option 4 ID : 630680995296

Q.4 Which of the following is the proper sequence of the accounting cycle?

Ans  1.

Recording of Transaction → Journal → Ledger → Trial Balance → Adjusted Trial Balance → Adjustment Entries → Closing Entries → Financial Statement

2.

Recording of Transaction → Journal → Ledger → Trial Balance → Adjustment Entries → Adjusted Trial Balance → Closing Entries → Financial Statement

3.

Recording of Transaction → Journal → Ledger → Trial Balance → Adjustment Entries → Closing Entries → Adjusted Trial Balance → Financial Statement

4.

Recording of Transaction → Journal → Ledger → Trial Balance → Adjustment Entries → Adjusted Trial Balance → Financial Statement → Closing Entries

Question ID : 630680256388

Option 1 ID : 630680995479

Option 2 ID : 630680995482

Option 3 ID : 630680995481

Option 4 ID : 630680995480

Q.5 Which of the following operators has the highest precedence in the C programming language?

Ans  1. ^

2. !=

3. \*

4. ()

Question ID : 630680256413

Option 1 ID : 630680995582

Option 2 ID : 630680995581

Option 3 ID : 630680995580

Option 4 ID : 630680995579

Q.6 Interpretability, Format, Coherence and Compatibility refer to which quality of information with reference to Management Information System?

Ans  1. Contextual

2. Representational

3. Intrinsic

4. Accessibility

Question ID : 630680256363

Option 1 ID : 630680995380

Option 2 ID : 630680995381

Option 3 ID : 630680995379

Option 4 ID : 630680995382

Q.7 The 'DEFAULT constraint' of SQL will \_\_\_\_\_.

- Ans
- 1. ensure that a column cannot have a NULL value
  - 2. ensure that all the values in a column satisfy certain conditions
  - 3. ensure that all values in a column are different
  - 4. provide a default value for a column when none is specified

Question ID : 630680256351  
Option 1 ID : 630680995331  
Option 2 ID : 630680995334  
Option 3 ID : 630680995332  
Option 4 ID : 630680995333

Q.8 Which of the following refers to the art of recoding, classifying and summarising in a significant manner, and in terms of money, transactions and events that are in part at least of a financial character, and interpreting the results thereof?

- Ans
- 1. Financial Accounting
  - 2. Cost Accounting
  - 3. Management Accounting
  - 4. Book Keeping

Question ID : 630680256387  
Option 1 ID : 630680995476  
Option 2 ID : 630680995477  
Option 3 ID : 630680995478  
Option 4 ID : 630680995475

Q.9 Which of the following types of XML parsers is an object that contains all the information of an XML document and is composed like a tree structure?

- Ans
- 1. DOS
  - 2. SAX
  - 3. DOM
  - 4. SAY

Question ID : 630680256368  
Option 1 ID : 630680995399  
Option 2 ID : 630680995401  
Option 3 ID : 630680995400  
Option 4 ID : 630680995402

**Q.10** Activities like packing goods, loading goods and shipping goods belong to which step of the e-commerce primary process?

- Ans**
- 1. Contract conclusion
  - 2. Delivery/fulfilment
  - 3. Billing/invoice
  - 4. Service/support

Question ID : 630680256405

Option 1 ID : 630680995549

Option 2 ID : 630680995547

Option 3 ID : 630680995550

Option 4 ID : 630680995548

**Q.11** Which of the following algebraic functions represents NAND gate?

- Ans**
- 1.  $(xy)'$
  - 2.  $(x+y)'$
  - 3.  $x+y$
  - 4.  $x*y$

Question ID : 630680256381

Option 1 ID : 630680995453

Option 2 ID : 630680995454

Option 3 ID : 630680995452

Option 4 ID : 630680995451

**Q.12** Which of the following front-end tools is one of the most widely used CSS extension languages across the world?

- Ans**
- 1. Visual Studio Code
  - 2. Git
  - 3. TypeScript
  - 4. Sass

Question ID : 630680256343

Option 1 ID : 630680995300

Option 2 ID : 630680995301

Option 3 ID : 630680995302

Option 4 ID : 630680995299

**Q.13** Which of the following methods is used for the function  $y = f(x)$ , with the given discrete set of points  $(x_i, y_i)$ ,  $i = 0, 1, 2, 3, \dots, n$  where  $x_i$ 's are NOT equispaced?

- Ans**
- 1. Newton's backward interpolation formula
  - 2. Newton's divided difference formula
  - 3. Newton's forward interpolation formula
  - 4. Gauss's forward difference formula

Question ID : 630680256410  
Option 1 ID : 630680995568  
Option 2 ID : 630680995569  
Option 3 ID : 630680995567  
Option 4 ID : 630680995570

**Q.14** In which of the following radio channel sharing methods several users share the same frequency channel of higher bandwidth by dividing it into different time slots?

- Ans**
- 1. Time Division Multiple Access
  - 2. Network Division Multiple Access
  - 3. Frequency Division Multiple Access
  - 4. Packet Division Multiple Access

Question ID : 630680256408  
Option 1 ID : 630680995560  
Option 2 ID : 630680995562  
Option 3 ID : 630680995559  
Option 4 ID : 630680995561

**Q.15** Which of the following with reference to digital electronics is a device that stores (and sometimes displays) the number of times a particular event or process has occurred, often in relationship to a clock signal?

- Ans**
- 1. Latch
  - 2. Flip-Flop
  - 3. Counter
  - 4. Register

Question ID : 630680256379  
Option 1 ID : 630680995444  
Option 2 ID : 630680995445  
Option 3 ID : 630680995443  
Option 4 ID : 630680995446

Q.16 The operations of a \_\_\_\_\_ require that the first element that is inserted is the first one to be removed?

- Ans
- 1. union
  - 2. graph
  - 3. stack
  - 4. queue

Question ID : 630680256347

Option 1 ID : 630680995315

Option 2 ID : 630680995316

Option 3 ID : 630680995317

Option 4 ID : 630680995318

Q.17 Which of the following belongs to the fixed and wireless configuration category of mobile devices?

- Ans
- 1. Wi-Fi router
  - 2. Desktop computer
  - 3. Wi-Fi Dongle
  - 4. Laptop

Question ID : 630680256406

Option 1 ID : 630680995553

Option 2 ID : 630680995551

Option 3 ID : 630680995554

Option 4 ID : 630680995552

Q.18 The \_\_\_\_\_ economic system is characterised by free markets and the absence of government intervention in the economy.

- Ans
- 1. private
  - 2. capitalist
  - 3. public
  - 4. socialist

Question ID : 630680256398

Option 1 ID : 630680995519

Option 2 ID : 630680995521

Option 3 ID : 630680995522

Option 4 ID : 630680995520

**Q.19** Which of the following is designed in such a way that all the stations are connected through a single cable known as a backbone cable in the computer network?

- Ans**
- 1. Bus topology
  - 2. Mesh topology
  - 3. Star topology
  - 4. Ring topology

Question ID : 630680256341  
Option 1 ID : 630680995292  
Option 2 ID : 630680995293  
Option 3 ID : 630680995291  
Option 4 ID : 630680995294

**Q.20** The algorithm that manages routing tables and makes routing decisions in the network layer of the ISO/OSI model is called \_\_\_\_\_.

- Ans**
- 1. network algorithm
  - 2. routing algorithm
  - 3. table algorithm
  - 4. IP algorithm

Question ID : 630680256332  
Option 1 ID : 630680995256  
Option 2 ID : 630680995257  
Option 3 ID : 630680995255  
Option 4 ID : 630680995258

Section : Discipline4

**Q.1** With reference to Management Information System, which of the following categories refers to information that is concerned with long-term policy decisions that define the objectives of a business and check how well these objectives are met?

- Ans**
- 1. Tactical information
  - 2. Strategic information
  - 3. Operational information
  - 4. Planning information

Question ID : 630680256361  
Option 1 ID : 630680995373  
Option 2 ID : 630680995374  
Option 3 ID : 630680995372  
Option 4 ID : 630680995371

Q.2 The semiconductor memory Dynamic RAM (DRAM) stores each bit of information in a/an \_\_\_\_\_.

- Ans
- 1. diode
  - 2. electrical capacitor
  - 3. flip-flop
  - 4. resistor

Question ID : 630680256371

Option 1 ID : 630680995413

Option 2 ID : 630680995412

Option 3 ID : 630680995411

Option 4 ID : 630680995414

Q.3 C++ provides inline functions to facilitate a reduced function call overhead mainly for \_\_\_\_\_.

- Ans
- 1. non-member functions
  - 2. library functions
  - 3. small functions
  - 4. large functions

Question ID : 630680256356

Option 1 ID : 630680995354

Option 2 ID : 630680995353

Option 3 ID : 630680995351

Option 4 ID : 630680995352

Q.4 AB is a tangent to a circle at B. O is the centre of the circle. If the circle radius is 40 mm and AB = 150 mm, calculate the length of AO.

- Ans
- 1. 57.30 mm
  - 2. 962 mm
  - 3. 155.2 mm
  - 4. 235.6 mm

Question ID : 630680256384

Option 1 ID : 630680995465

Option 2 ID : 630680995466

Option 3 ID : 630680995464

Option 4 ID : 630680995463

Q.5 Which of the following effects is the phenomenon of emission of electrons from the surfaces of certain substances, mainly metals, when light of a shorter wavelength is incident upon them?

- Ans
- 1. Photo-light
  - 2. Photo-mechanic
  - 3. Photo-electric
  - 4. Photo-magnetic

Question ID : 630680256386

Option 1 ID : 630680995474

Option 2 ID : 630680995472

Option 3 ID : 630680995471

Option 4 ID : 630680995473

Q.6 Which characteristic of an algorithm refers to 'each instruction is clear and unambiguous'?

- Ans
- 1. Definiteness
  - 2. Finiteness
  - 3. Effectiveness
  - 4. Indefiniteness

Question ID : 630680256345

Option 1 ID : 630680995309

Option 2 ID : 630680995307

Option 3 ID : 630680995308

Option 4 ID : 630680995310

Q.7 Which of the following is a java primitive data type?

- Ans
- 1. Array
  - 2. String
  - 3. Classes
  - 4. Byte

Question ID : 630680256389

Option 1 ID : 630680995485

Option 2 ID : 630680995483

Option 3 ID : 630680995486

Option 4 ID : 630680995484

Q.8 What will be the output of the Linux shell command 'rm doc\*'?

- Ans
- 1. Erase all files beginning with the pattern 'doc'
  - 2. Erase all files ending with the pattern 'doc'
  - 3. List filenames ending with the pattern 'doc'
  - 4. List filenames beginning with the pattern 'doc'

Question ID : 630680256402  
Option 1 ID : 630680995535  
Option 2 ID : 630680995538  
Option 3 ID : 630680995537  
Option 4 ID : 630680995536

Q.9 Which of the following is a Microsoft ActiveX control that will sort through a data file, extrapolate the necessary information and produce that information in specified areas on the web page?

- Ans
- 1. Dialog Bars
  - 2. Tabular Data Control
  - 3. Control Bars
  - 4. Dialog Boxes

Question ID : 630680256370  
Option 1 ID : 630680995409  
Option 2 ID : 630680995408  
Option 3 ID : 630680995410  
Option 4 ID : 630680995407

Q.10 Which of the following is known as an association among several entities?

- Ans
- 1. Instance
  - 2. Key
  - 3. Relationship
  - 4. Participation

Question ID : 630680256350  
Option 1 ID : 630680995329  
Option 2 ID : 630680995330  
Option 3 ID : 630680995328  
Option 4 ID : 630680995327

Q.11 Which of the following controls in VB.NET is used to select one option from a number of choices?

- Ans
- 1. Label
  - 2. Button
  - 3. ListBox
  - 4. RadioButton

Question ID : 630680256393  
Option 1 ID : 630680995499  
Option 2 ID : 630680995501  
Option 3 ID : 630680995502  
Option 4 ID : 630680995500

Q.12 The Insert key in a keyboard of a computer system is used to toggle between \_\_\_\_\_ and \_\_\_\_\_ modes during data entry.

- Ans
- 1. backspace; overwrite
  - 2. delete; overwrite
  - 3. insert; overwrite
  - 4. delete; replace

Question ID : 630680256349  
Option 1 ID : 630680995324  
Option 2 ID : 630680995323  
Option 3 ID : 630680995326  
Option 4 ID : 630680995325

Q.13 Which of the following is NOT a component of Management Information System?

- Ans
- 1. People
  - 2. Software
  - 3. Education procedures
  - 4. Data

Question ID : 630680256362  
Option 1 ID : 630680995375  
Option 2 ID : 630680995378  
Option 3 ID : 630680995377  
Option 4 ID : 630680995376

Q.14 Which of the following is a symbolic name given to a memory location in any programming language?

- Ans
- 1. Variable
  - 2. Constant
  - 3. Literal
  - 4. Attribute

Question ID : 630680256373  
Option 1 ID : 630680995420  
Option 2 ID : 630680995419  
Option 3 ID : 630680995421  
Option 4 ID : 630680995422

Q.15 Which of the following helps to make predictions from data?

- Ans
- 1. Prescriptive statistics
  - 2. Inferential statistics
  - 3. Sample statistics
  - 4. Descriptive statistics

Question ID : 630680256376  
Option 1 ID : 630680995434  
Option 2 ID : 630680995432  
Option 3 ID : 630680995433  
Option 4 ID : 630680995431

Q.16 What is the amount of rotation between two straight lines?

- Ans
- 1. Revolution
  - 2. Degree
  - 3. Transversal
  - 4. Angle

Question ID : 630680256383  
Option 1 ID : 630680995461  
Option 2 ID : 630680995460  
Option 3 ID : 630680995462  
Option 4 ID : 630680995459

Q.17 Which of the following is FALSE with reference to constructor in C#.NET?

- Ans
- 1. It can have a return type.
  - 2. All classes have constructors by default.
  - 3. Constructor name must match the class name.
  - 4. The constructor is called when the object is created.

Question ID : 630680256394

Option 1 ID : 630680995504

Option 2 ID : 630680995505

Option 3 ID : 630680995503

Option 4 ID : 630680995506

Q.18 Which of the following is NOT a storage class in the C programming language?

- Ans
- 1. Register
  - 2. Extern
  - 3. Auto
  - 4. Intern

Question ID : 630680256328

Option 1 ID : 630680995242

Option 2 ID : 630680995239

Option 3 ID : 630680995240

Option 4 ID : 630680995241

Q.19 Which of the following is FALSE with reference to peer-to-peer network?

- Ans
- 1. This network has a dedicated server.
  - 2. It is useful for small environments, usually up to 10 computers.
  - 3. Special permissions are assigned to each computer for sharing the resources.
  - 4. All the computers are linked together with equal privilege and responsibilities for processing data.

Question ID : 630680256339

Option 1 ID : 630680995286

Option 2 ID : 630680995284

Option 3 ID : 630680995285

Option 4 ID : 630680995283

**Q.20** Which of the following is true with reference to Queue Data Structure in the C programming language?

- (i) Insertion can take place from the front end.
- (ii) Deletion can take place from the rear end.

- Ans**
- ✓ 1. Neither (i) nor (ii)
  - ✗ 2. Both (i) and (ii)
  - ✗ 3. Only (i)
  - ✗ 4. Only (ii)

Question ID : 630680256329  
 Option 1 ID : 630680995246  
 Option 2 ID : 630680995245  
 Option 3 ID : 630680995243  
 Option 4 ID : 630680995244

Section : Discipline5

**Q.1** What is the binary equivalent of the decimal number 10.25?

- Ans**
- ✓ 1. 1010.01
  - ✗ 2. 1011.01
  - ✗ 3. 1101.01
  - ✗ 4. 1111.01

Question ID : 630680256380  
 Option 1 ID : 630680995448  
 Option 2 ID : 630680995450  
 Option 3 ID : 630680995449  
 Option 4 ID : 630680995447

**Q.2** Match the system with the respective unit to represent heat.

System	Unit
(a) CGS	(i) BTU
(b) FPS	(ii) Joule
(c) SI	(iii) Calorie

- Ans**
- ✓ 1. (a)-(iii), (b)-(i), (c)-(ii)
  - ✗ 2. (a)-(ii), (b)-(i), (c)-(iii)
  - ✗ 3. (a)-(i), (b)-(ii), (c)-(iii)
  - ✗ 4. (a)-(ii), (b)-(iii), (c)-(i)

Question ID : 630680256346  
 Option 1 ID : 630680995312  
 Option 2 ID : 630680995313  
 Option 3 ID : 630680995311  
 Option 4 ID : 630680995314

Q.3 What is the key length for the Triple DES cryptography algorithm?

- Ans
- 1. 46 bits
  - 2. 32 bits
  - 3. 168 bits
  - 4. 56 bits

Question ID : 630680256338

Option 1 ID : 630680995280

Option 2 ID : 630680995279

Option 3 ID : 630680995282

Option 4 ID : 630680995281

Q.4 Which of the following refers to the kind of problems that require the identification of the best solution to a search problem from a given set of solutions?

- Ans
- 1. Training
  - 2. Optimisation
  - 3. Counting
  - 4. Decision

Question ID : 630680256411

Option 1 ID : 630680995574

Option 2 ID : 630680995571

Option 3 ID : 630680995573

Option 4 ID : 630680995572

Q.5 Which of the following internet protocols provides a way for applications to send encapsulated IP datagrams without having to establish a connection?

- Ans
- 1. Telnet
  - 2. Unit Datagram Protocol
  - 3. Transmission Control Protocol
  - 4. rlogin

Question ID : 630680256335

Option 1 ID : 630680995269

Option 2 ID : 630680995267

Option 3 ID : 630680995268

Option 4 ID : 630680995270

Q.6 With reference to stakeholders of e-commerce, business organisations abbreviated by 'B' may include \_\_\_\_\_.

- Ans
- 1. government
  - 2. consumers
  - 3. customers
  - 4. producers

Question ID : 630680256404  
Option 1 ID : 630680995546  
Option 2 ID : 630680995543  
Option 3 ID : 630680995544  
Option 4 ID : 630680995545

Q.7 Which of the following is the fundamental state of business activity and involves the sale and purchase of goods and services?

- Ans
- 1. Enterprise
  - 2. Trade
  - 3. Supply
  - 4. Industry

Question ID : 630680256374  
Option 1 ID : 630680995424  
Option 2 ID : 630680995425  
Option 3 ID : 630680995426  
Option 4 ID : 630680995423

Q.8 Which of the following refers to a planned system of collecting, storing and disseminating data in the form of information needed to carry out the functions of management?

- Ans
- 1. Computer Networks
  - 2. Software Engineering
  - 3. Management Information System
  - 4. Database Management System

Question ID : 630680256360  
Option 1 ID : 630680995370  
Option 2 ID : 630680995369  
Option 3 ID : 630680995367  
Option 4 ID : 630680995368

**Q.9** 'As the stock of a commodity increases with the consumer, its marginal utility to the consumer decreases'. To which of the following laws does the given statement refer to?

- Ans**
- 1. Law of Diminishing Marginal Utility
  - 2. Law of Supply
  - 3. Law of Elasticity
  - 4. Law of Demand

Question ID : 630680256399  
Option 1 ID : 630680995525  
Option 2 ID : 630680995524  
Option 3 ID : 630680995526  
Option 4 ID : 630680995523

**Q.10** In a Client/Server network, the central controller is known as a \_\_\_\_\_, while all other computers in the network are called \_\_\_\_\_.

- Ans**
- 1. peer; servers
  - 2. client; servers
  - 3. server; clients
  - 4. server; peers

Question ID : 630680256340  
Option 1 ID : 630680995289  
Option 2 ID : 630680995288  
Option 3 ID : 630680995287  
Option 4 ID : 630680995290

Section : Teaching Methodology

**Q.1** Considering the benefits to children with disability, which of the following provisions of Sarva Shiksha Abhiyan is correct?  
I. Stipend for girls with disabilities  
II. Braille textbooks

- Ans**
- 1. Only II
  - 2. Only I
  - 3. Neither I nor II
  - 4. Both I and II

Question ID : 630680256420  
Option 1 ID : 630680995608  
Option 2 ID : 630680995607  
Option 3 ID : 630680995610  
Option 4 ID : 630680995609

Q.2 Reinforcement strengthens the occurrence of the emitted behaviour in the students. Which of the following is the correct example of positive reinforcement?

- Ans  1. Teacher assigning high grades.  
 2. Teacher finding loopholes in work.  
 3. Teacher detaining the student after class hours.  
 4. Teacher giving threat of failure.

Question ID : 630680256422  
Option 1 ID : 630680995615  
Option 2 ID : 630680995616  
Option 3 ID : 630680995618  
Option 4 ID : 630680995617

Q.3 Which of the following does not come under lower form of writing?

- Ans  1. Dictation  
 2. Picture composition  
 3. Paragraph writing  
 4. Independent writing

Question ID : 630680256423  
Option 1 ID : 630680995621  
Option 2 ID : 630680995619  
Option 3 ID : 630680995622  
Option 4 ID : 630680995620

Q.4 Which of the following is NOT correct in regard of Piagetian perspective of play?

- Ans  1. Play is not possible for child without toys  
 2. The play is something which transcends both culture and time  
 3. Play have biological foundation  
 4. The play is something related to nature

Question ID : 630680256417  
Option 1 ID : 630680995598  
Option 2 ID : 630680995597  
Option 3 ID : 630680995595  
Option 4 ID : 630680995596

Q.5 Which activity children's do to expand their vocabulary?

- I. Fast mapping  
II. Sorting

- Ans  1. Only I  
 2. Only II  
 3. Both I and II  
 4. Neither I nor II

Question ID : 630680256418  
Option 1 ID : 630680995599  
Option 2 ID : 630680995600  
Option 3 ID : 630680995601  
Option 4 ID : 630680995602

Q.6 In which method of learning by work, student themselves decide objective and prepare plan for an activity?

- Ans  1. Project method  
 2. Excursion method  
 3. Observation method  
 4. Demonstration method

Question ID : 630680256425  
Option 1 ID : 630680995629  
Option 2 ID : 630680995630  
Option 3 ID : 630680995627  
Option 4 ID : 630680995628

Q.7 The 'Kesari' newspaper was published in which language?

- Ans  1. Marathi  
 2. Odiya  
 3. Bengali  
 4. Hindi

Question ID : 630680256419  
Option 1 ID : 630680995605  
Option 2 ID : 630680995606  
Option 3 ID : 630680995604  
Option 4 ID : 630680995603

Q.8 According to the Indian Penal Code, an offence is not punishable for a child below \_\_\_\_\_ of age.

- Ans  1. 10 years  
 2. 5 years  
 3. 7 years  
 4. 12 years

Question ID : 630680256424  
Option 1 ID : 630680995626  
Option 2 ID : 630680995625  
Option 3 ID : 630680995624  
Option 4 ID : 630680995623

Q.9 Parent and family involvement decreases student's \_\_\_\_\_.

- I. Achievement  
II. Success

- Ans  1. Only I  
 2. Both I and II  
 3. Neither I nor II  
 4. Only II

Question ID : 630680256426  
Option 1 ID : 630680995631  
Option 2 ID : 630680995633  
Option 3 ID : 630680995634  
Option 4 ID : 630680995632

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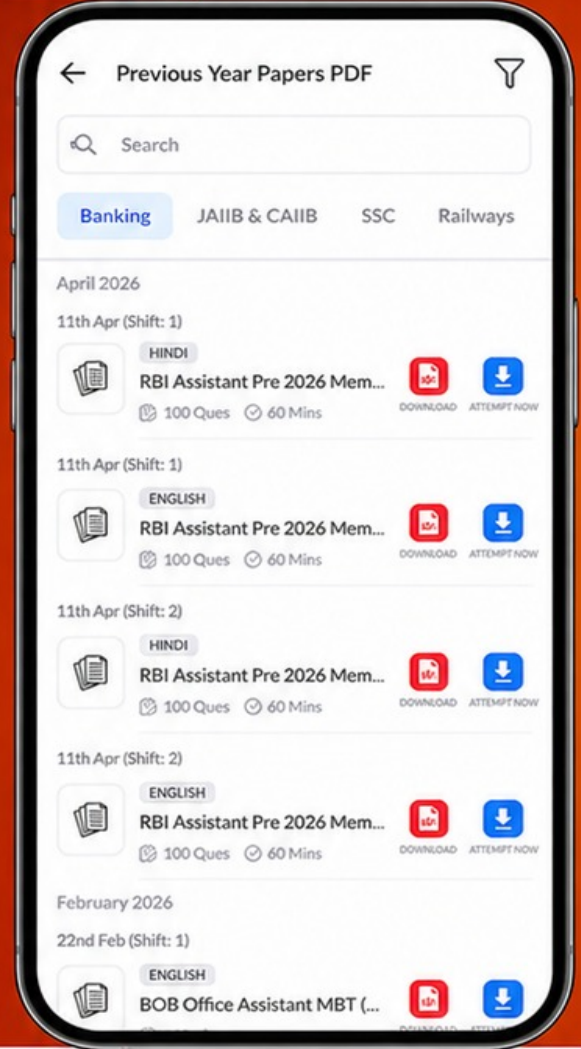
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Q.10 Read the following characteristics of one of the piaget's stages of cognitive development given as A, B and C. Select the correct stage from the options.

- A. Complete generality of thought.
- B. Development of strong idealism.
- C. Propositional thinking.

- Ans
- 1. Concrete operations stage
  - 2. Preoperational stage
  - 3. Formal operations stage
  - 4. Sensorimotor

Question ID : 630680256421

Option 1 ID : 630680995614

Option 2 ID : 630680995611

Option 3 ID : 630680995612

Option 4 ID : 630680995613

