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DSSSB PGT

Previous Year Paper
CS (Female) 21 Nov
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GOVT. OF NCT OF DELHI
Delhi Subordinate Services Selection Board
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Test Date	21/11/2022
Test Time	2:00 PM - 5:00 PM
Subject	PGT Computer science(Female)

Section : Mental ability and reasoning Ability

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

- Ans**
- ✓ A. ABDJ
 - ✗ B. GNBD
 - ✗ C. EJTN
 - ✗ D. DHPF

Question ID : 9744432530

Q.2 Three statements are given, followed by three conclusions numbered I, II, and III. 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 flowers are plants.
- B. Some flowers are bullets.
- C. No bullets are guns.

Conclusions:

- I. All guns are plants.
- II. Some plants are bullets.
- III. Some plants are flowers.

- Ans**
- ✗ A. Only conclusions I and II follow
 - ✗ B. All the conclusions I, II and III follow
 - ✓ C. Only conclusions II and III follow
 - ✗ D. Only conclusion I follows

Question ID : 9744432523

Q.3 Two cars, A and B, start moving towards each other from two places 2000 m apart. After travelling 600 m towards the east, car B turns right and travels 200 m, and then turns left and travels 400 m. Car B then turns left again and comes back to the road on which both the cars had started moving. If Car A travels only 1120 m straight, what is the distance between these two cars?

- Ans**
- ☒ A. 100 m
 - ☒ B. 60 m
 - ☒ C. 80 m
 - ☒ D. 120 m

Question ID : 9744432526

Q.4 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:

What will Gagan's rank be in the row of students?

Statements:

- I. Dev ranked 15th from the right end of the row of 90 students.
- II. Gagan is standing between Dev and Mohan.

- Ans**
- ☒ A. Statement I alone is sufficient, while Statement II alone is not sufficient
 - ☒ B. Either Statement I alone or Statement II alone is sufficient
 - ☒ C. Both the statements are insufficient
 - ☒ D. Statement II alone is sufficient, while statement I alone is not sufficient

Question ID : 9744432534

Q.5 Select the option that is related to the fourth letter-cluster in the same way as the first letter-cluster is related to the second letter-cluster.

ADGJ : MOQS :: ? : NQTW

- Ans**
- ☒ A. BFKN
 - ☒ B. BFIN
 - ☒ C. BFJN
 - ☒ D. BFJM

Question ID : 9744432529

Q.6 There is a group of five sportsmen. Anand and Bipin are good in cricket and football. Calvin and Bipin are good in cricket and tennis. Anand and Danish are good in badminton and football. Danish and Ervin are good in badminton and table tennis. Ervin is good in table tennis, tennis and badminton.

Who among the following is good in cricket and tennis but NOT in football?

- Ans**
- ☒ A. Anand
 - ☒ B. Calvin
 - ☒ C. Bipin
 - ☒ D. Danish

Question ID : 9744432524

Q.7 Six players – Virat, Rohit, Rahul, Rishabh, Sachin and Dravid – each scored different number of runs in T20 World Cup as follows:

- 1. Rishabh scored fewer runs than only two players.
- 2. Virat scored more than Rahul but less than Dravid and Rishabh.
- 3. Rahul did not score the least runs, but scored more than Sachin.
- 4. Dravid scored fewer runs than Rohit.
- 5. The third lowest score among the players is 128 runs.

How many players scored more than Rahul?

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

Question ID : 9744432522

Q.8 Select the number from among the given options that can replace the question mark (?) in the following series.
5, 1, 11, 13, 35, ?

- Ans** ☒ A. 64
- ☒ B. 61
- ☒ C. 67
- ☒ D. 63

Question ID : 9744432533

Q.9 Three statements are given, followed by three conclusions numbered I, II, and III. 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. Some cups are pens.
- B. All pens are spiders.
- C. Some pens are tables.

Conclusions:

- I. Some spiders are pens.
- II. Some tables are pens.
- III. Some pens are cups.

- Ans** ☒ A. Only conclusions II and III follow
- ☒ B. All the conclusions I, II and III follow
- ☒ C. Only conclusions I and II follow
- ☒ D. Only conclusion I follows

Question ID : 9744432540

Q.10 In a certain code language 'GARAGE' is written as 'BHFHBS'. How will 'MYOPIA' be written in that language?

- Ans** ☒ A. QJBOZP
- ☒ B. QJBNZP
- ☒ C. QJCNZP
- ☒ D. QJBNYP

Question ID : 9744432525

Q.11 एक कथन के बाद I और II क्रमांकित दो मान्यताएँ दी गई हैं। कथन पर विचार करें और तय करें कि दी गई मान्यताओं में से कौन सी कथन में निहित है / हैं।

कथन:

राज्य सरकार ने अगले वित्तीय वर्ष में दो हजार माध्यमिक विद्यालयों के शिक्षकों की नियुक्ति करने का निर्णय लिया है।

धारणा:

- I. राज्य में दो हजार अतिरिक्त माध्यमिक विद्यालय के शिक्षकों को समायोजित करने के लिए पर्याप्त स्कूल हैं।
- II. योग्य उम्मीदवार आवेदन करने के लिए इच्छुक नहीं हो सकते हैं क्योंकि सरकार अंततः इतनी बड़ी संख्या में माध्यमिक विद्यालय के शिक्षकों को नियुक्त नहीं कर सकती है।

Ans

- ✓ A. केवल धारणा I निहित है
- ✗ B. दोनों धारणाएं निहित हैं
- ✗ C. न तो धारणा I निहित है और न ही II निहित है
- ✗ D. केवल धारणा II निहित है

Question ID : 9744432531

Q.12 Which two numbers should be interchanged to make the given equation correct?

$$253 \div 80 - 23 + 29 \times 33 = 888$$

Ans

- ✗ A. 33 and 23
- ✗ B. 80 and 33
- ✓ C. 23 and 80
- ✗ D. 80 and 253

Question ID : 9744432536

Q.13 Select the term from among the given options that can replace the question mark (?) in the following series.

MF3A, PA8W, ?, VQ24O, YL35K

Ans

- ✓ A. SV15S
- ✗ B. SU15S
- ✗ C. SV15T
- ✗ D. SW15S

Question ID : 9744432539

Q.14 Select the correct combination of mathematical signs that can sequentially replace the * signs and balance the following equation.

$$78 * 405 * 45 * 70 * 89 * 721$$

Ans

- ✗ A. $\div, +, \times, -, =$
- ✓ B. $\times, \div, -, +, =$
- ✗ C. $-, \div, =, +, \times$
- ✗ D. $+, \div, =, \times, -$

Question ID : 9744432535

Q.15 'X \$ Y' means 'Y is the father of X',
'X # Y' means 'Y is the mother of X', and
'X @ Y' means 'Y is the husband of X'.
If P @ Q \$ M # N, then how is N related to P?

- Ans
- ☒ A. N is the grandmother of P's husband
 - ☐ B. N is the grandmother of P's wife
 - ☐ C. M is the son of N's father
 - ☐ D. N is the mother of P's husband's mother

Question ID : 9744432527

Q.16 In a class of 55 students, Riya is placed 17th from the bottom, whereas Rani is placed 19th from the top. Salman is placed exactly between Rani and Riya. What is Riya's position with respect to Salman?

- Ans
- ☐ A. 13th
 - ☒ B. 10th
 - ☐ C. 11th
 - ☐ D. 12th

Question ID : 9744432521

Q.17 A question is given, followed by two statements numbered I and II. Identify which of the statements is/are sufficient/necessary to answer the question.

Question:

What will be age of the son?

Statements:

- I. The sum of the ages of a son and his father is 60.
- II. The product of ages of a son and his father is 675.

- Ans
- ☐ A. Statement I alone is sufficient, while statement II alone is not sufficient
 - ☐ B. Either statement I alone or in statement II alone is sufficient
 - ☒ C. Both the statements I and II are necessary
 - ☐ D. Statement II alone is sufficient, while statement I alone is not sufficient

Question ID : 9744432528

Q.18 Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

EXCUSE : DYFFTV :: ERODES : ?

- Ans
- ☐ A. PSFFET
 - ☐ B. PFSTFE
 - ☒ C. PSFTFE
 - ☐ D. PSFTEF

Question ID : 9744432537

Q.19 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different.

- Ans**
- ☒ A. VAZE
 - ☒ B. GLOT
 - ☒ C. UZAH
 - ☒ D. RWDI

Question ID : 9744432538

Q.20 Select the number from among the given options that can replace the question mark (?) in the following series.
3, 16, 22, 54, 98, ?

- Ans**
- ☒ A. 196
 - ☒ B. 186
 - ☒ C. 216
 - ☒ D. 206

Question ID : 9744432532

Section : General Awareness

Q.1 Which of the following countries will host the FIFA World Cup 2022?

- Ans**
- ☒ A. Oman
 - ☒ B. Kuwait
 - ☒ C. Qatar
 - ☒ D. Israel

Question ID : 9744432544

Q.2 In September 2022, in which of the following cities of Uzbekistan did Prime Minister Narendra Modi meet Russian President Vladimir Putin?

- Ans**
- ☒ A. Nukus
 - ☒ B. Navoiy
 - ☒ C. Bukhara
 - ☒ D. Samarkand

Question ID : 9744432558

Q.3 The percentage of persons below the Poverty Line in 2011-12 has been estimated as _____ in rural areas.

- Ans**
- ☒ A. 25.7 percent
 - ☒ B. 21.3 percent
 - ☒ C. 16.8 percent
 - ☒ D. 28.7 percent

Question ID : 9744432542

Q.4 The Arulmigu Ramanathaswamy Temple is located in which of the following places of Tamil Nadu?

- Ans
- ☒ A. Rameswaram
 - ☐ B. Madurai
 - ☐ C. Coimbatore
 - ☐ D. Thoothukudi

Question ID : 9744432548

Q.5 Bihugeet is performed in which of the following states of India?

- Ans
- ☐ A. Uttarakhand
 - ☐ B. Nagaland
 - ☐ C. Manipur
 - ☒ D. Assam

Question ID : 9744432550

Q.6 Nagarjuna Sagar Dam is a masonry dam across the _____.

- Ans
- ☐ A. Godavari River
 - ☐ B. Mahanadi River
 - ☒ C. Krishna River
 - ☐ D. Kaveri River

Question ID : 9744432551

Q.7 Which of the following scientists received the 2021 Nobel Prize in Chemistry for the development of asymmetric organocatalysis?

- Ans
- ☐ A. Syukuro Manabe
 - ☐ B. Giorgio Parisi
 - ☐ C. Klaus Hasselmann
 - ☒ D. Benjamin List

Question ID : 9744432559

Q.8 Radiocarbon Dating is also known as _____.

- Ans
- ☒ A. C-14 dating
 - ☐ B. C-15 dating
 - ☐ C. C-16 dating
 - ☐ D. C-17 dating

Question ID : 9744432554

Q.9 Who was the president of Pakistan during the 1971 war with India?

- Ans
- ☐ A. Muhammad Zia-ul-Haq
 - ☒ B. Yahya Khan
 - ☐ C. Iskander Mirza
 - ☐ D. Zulfikar Ali Bhutto

Question ID : 9744432547

Q.10 Which of the following sportspersons won the gold medal in the Commonwealth Games 2022 in the men's 73 kg weightlifting event?

- Ans
- ☐ A. Lovepreet Singh
 - ☐ B. Vijay Kumar Yadav
 - ☐ C. Jeremy Lalrinnunga
 - ☒ D. Achinta Sheuli

Question ID : 9744432545

Q.11 The Dudhwa Tiger Reserve is located in which of the following states?

- Ans
- ☒ A. Uttar Pradesh
 - ☐ B. Bihar
 - ☐ C. Rajasthan
 - ☐ D. Odisha

Question ID : 9744432560

Q.12 Chini ka Rauza, which is a tomb and funerary monument, is located in which of the following cities?

- Ans
- ☐ A. Hyderabad
 - ☐ B. Jaipur
 - ☐ C. Lucknow
 - ☒ D. Agra

Question ID : 9744432557

Q.13 Pandit Bajinath Prasad, also known as Pandit Lachhu Maharaj, was known for which of the following classical dances?

- Ans
- ☐ A. Manipuri
 - ☒ B. Kathak
 - ☐ C. Odissi
 - ☐ D. Bharatanatyam

Question ID : 9744432549

Q.14 Nitrogen was officially discovered in 1772 by Scottish scientist, _____.

- Ans
- ☒ A. Daniel Rutherford
 - ☐ B. Antoine Lavoisier
 - ☐ C. Niels Bohr
 - ☐ D. Gregor Mendel

Question ID : 9744432556

Q.15 The Narora Atomic Power Station is located in which of the following states of India?

- Ans
- ☐ A. Tamil Nadu
 - ☐ B. Gujarat
 - ☒ C. Uttar Pradesh
 - ☐ D. Maharashtra

Question ID : 9744432553

Q.16 निम्नलिखित में से किस मंदिर का निर्माण चंदेल राजवंश द्वारा किया गया था?

- Ans
- ☐ A. रामास्वामी मंदिर
 - ☐ B. अनंतपुरा मंदिर
 - ☒ C. खजुराहो के मंदिर
 - ☐ D. कैलाशनाथार मंदिर

Question ID : 9744432546

Q.17 Which of the following is a private, non-government, nonprofit corporation with responsibility for Internet Protocol (IP) address space allocation, protocol parameter assignment, domain name system (DNS) management and root server system management functions?

- Ans
- ☐ A. GCANN
 - ☐ B. ACANN
 - ☒ C. ICANN
 - ☐ D. OCANN

Question ID : 9744432541

Q.18 What was the percentage of Sikh population as per the Census 2011?

- Ans
- ☒ A. 1.7 percent
 - ☐ B. 1.9 percent
 - ☐ C. 2.6 percent
 - ☐ D. 2.7 percent

Question ID : 9744432541



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Q.19 निम्न में से किस योजना का उद्देश्य अल्पसंख्यक युवाओं को कौशल आधारित रोजगार में सक्षम बनाने के लिए अल्पावधि नौकरी-उन्मुख कौशल विकास का पाठ्यक्रम प्रदान करता है?

Ans ☒ A.

गरीब नवाज़ रोजगार योजना (Gharib Nawaz Employment Scheme)

☐ B.

जमाली कमाली रोजगार योजना (Jamali Kamali Employment Scheme)

☐ C.

शहरे मुबारक रोजगार योजना (Shahre Mubarak Employment Scheme)

☐ D.

हाजी अली रोजगार योजना (Haji Ali Employment Scheme)

Question ID : 9744432543

Q.20 Which of the following Articles of the Indian Constitution explains the fundamental right of abolition of untouchability?

Ans ☐ A. Article 18

☐ B. Article 19

☐ C. Article 15

☒ D. Article 17

Question ID : 9744432555

Section : Numerical Aptitude and Data Interpretation

Q.1 Pipes A and B can fill a tank in 10 hours and 15 hours, respectively. Pipe C is an emptying pipe. When all the three pipes are opened together, for 5 hours, then $\frac{7}{12}$ part of the tank remains unfilled. In how many hours can pipes A and C together fill $\frac{5}{8}$ part of the tank?

Ans ☐ A. 35

☒ B. $37\frac{1}{2}$

☐ C. 40

☐ D. $38\frac{3}{4}$

Question ID : 9744432576

Q.2 A certain sum lent at compound interest for 2 years at 20% p.a. would fetch ₹1,446 more, if the interest was compounded half yearly than if it was compounded annually. The sum (in ₹) is:

Ans ☒ A. 60,000

☐ B. 65,000

☐ C. 50,000

☐ D. 55,000

Question ID : 9744432573

Q.3 Ajay started a business by investing ₹4.5 lakhs. After 4 months, Vijay joined him with an investment of ₹2.25 lakhs. After another two months, Ajay withdrew ₹1.5 lakhs, and Kewal joined with an investment of ₹6 lakhs. At the end of a year the profit is ₹7,42,500. What is the share (in ₹ lakhs) of Vijay in the profit?

- Ans**
- ☐ A. 3.375
 - ☐ B. 2.70
 - ☐ C. 2.025
 - ☒ D. 1.35

Question ID : 9744432571

Q.4 An item is sold for ₹475.20, after giving three successive discounts of 25%, 20% and $x\%$ on its marked price and the marked price of the item is ₹900. If a single discount of $\frac{3x}{2}\%$ is given on the same marked price, then what is the selling price (in ₹) of the item?

- Ans**
- ☐ A. 765
 - ☒ B. 738
 - ☐ C. 792
 - ☐ D. 774

Question ID : 9744432569

Q.5 A and B together can do $\frac{2}{5}$ part of a certain work in 27 days. They work together for 10 days and then C joins them. All the three together complete the remaining work in 14 days. The work done by B in 5 days is equal to the work done by C in 2 days. A alone can complete $\frac{8}{15}$ part of the original work in:

- Ans**
- ☐ A. 75 days
 - ☐ B. 80 days
 - ☐ C. 70 days
 - ☒ D. 60 days

Question ID : 9744432577

Q.6 The area of a triangular field whose sides are 95 m, 168 m and 193 m is equal to the area of a rectangular park with sides in the ratio 21 : 19. The perimeter (in m) of the park is:

- Ans**
- ☐ A. 180
 - ☐ B. $90\sqrt{5}$
 - ☒ C. $160\sqrt{5}$
 - ☐ D. 90

Question ID : 9744432578

Q.7 A washing machine is available for ₹20,000 cash or for ₹7,250 cash down payment and two equal annual instalments. If the rate of interest is 4% p.a. compounded yearly, then the amount of each instalment is:

- Ans
- ☒ A. ₹6,750
 - ☒ B. ₹6,780
 - ☒ C. ₹6,740
 - ☒ D. ₹6,760

Question ID : 9744432574

Q.8 The total surface area of a solid cylinder is 4620 cm^2 and its curved surface area is 40% of the total surface area. The volume (in cm^3) of the cylinder is:

(Use $\pi = \frac{22}{7}$)

- Ans
- ☒ A. 16632
 - ☒ B. 20790
 - ☒ C. 19404
 - ☒ D. 20097

Question ID : 9744432579

Q.9 By selling an article at $\frac{23}{32}$ of its selling price, there is a loss of 8%. If it is sold at its actual selling price, then the profit percentage is:

- Ans
- ☒ A. 28%
 - ☒ B. 32%
 - ☒ C. 23%
 - ☒ D. 26%

Question ID : 9744432568

Q.10 LCM of two numbers is 35 times their HCF, and the sum of their LCM and HCF is 468. The difference between the numbers is 26. If s is the sum of the numbers, then the sum of digits of s is:

- Ans
- ☒ A. 11
 - ☒ B. 13
 - ☒ C. 12
 - ☒ D. 9

Question ID : 9744432563

Q.11 The expression $\frac{0.\overline{37} \div 0.4\overline{1} \text{ of } 1.\overline{36}}{5\frac{1}{4} \div \frac{2}{7} \text{ of } \frac{1}{2} - 4\frac{1}{2}}$ is equal to:

- Ans
- ☒ A. 0.3
 - ☒ B. 0.03
 - ☒ C. $0.\overline{3}$
 - ☒ D. $0.0\overline{3}$

Question ID : 97444

Q.12 The simple interest on a certain sum for 12 years at 12.5% p.a. exceeds the amount of the same sum at the same rate for 3.5 years, by ₹750. The sum (in ₹) is:

- Ans** ☒ A. 12,000
☒ B. 13,000
☒ C. 12,500
☒ D. 11,500

Question ID : 9744432572

Q.13 Study the given table and answer the question that follows.
Revenue (in ₹ crores) of company XYZ on the sale of different products (P, Q, R and S) from 2016 to 2019:

Year	2016	2017	2018	2019
Product				
P	640	680	720	750
Q	570	640	650	670
R	760	710	870	850
S	830	770	660	730

What is the ratio of the total revenue of the company from the sale of products P and R in 2019 to the total revenue of the company from the sale of the products Q and S in 2016?

- Ans** ☒ A. 9 : 8
☒ B. 4 : 3
☒ C. 8 : 7
☒ D. 5 : 4

Question ID : 9744432580

Q.14 If the 9-digit number 529x4385y is divisible by 44, then what is the value of $(x + y)$, for the minimum value of y ?

- Ans** ☒ A. 7
☒ B. 8
☒ C. 9
☒ D. 6

Question ID : 9744432562

Q.15 A shopkeeper sells a fan for ₹1,107, after giving 18% discount on its marked price. If he does not give any discount, he earns a profit of 20% on the cost price. What is the cost price (in ₹) of the fan?

- Ans** ☒ A. 1,120
☒ B. 1,135
☒ C. 1,125
☒ D. 1,140

Question ID : 9744432570

Q.16 A boat takes 3 hours to go 56 km downstream and 22 km upstream. It takes $3\frac{1}{2}$ hours to go 42 km downstream and 44 km upstream. How much time (in hours) will it take to go 105 km downstream?

- Ans**
- ☐ A. 5
 - ☒ B. $3\frac{3}{4}$
 - ☐ C. 3
 - ☐ D. $3\frac{1}{2}$

Question ID : 9744432575

Q.17 The average of 54 numbers is 65.5. The average of the first 25 numbers is 60 and the average of the last 30 numbers is 69.5. What is the average of 56 and the 25th number from the beginning of the given 54 numbers?

- Ans**
- ☒ A. 52
 - ☐ B. 53
 - ☐ C. 56
 - ☐ D. 55

Question ID : 9744432564

Q.18 The ratio of acid and water in solutions A and B is 8 : 7 and 11 : 9, respectively. 3 litres of A is mixed with 4 litres of B. In 140 ml of the resulting solution, what is the quantity (in ml) of the acid?

- Ans**
- ☐ A. 72
 - ☒ B. 76
 - ☐ C. 84
 - ☐ D. 64

Question ID : 9744432565

Q.19 जब किसी वस्तु की कीमत में 40% की वृद्धि होती है, तो उस पर कुल व्यय 25.3% बढ़ जाता है। उपभोग की जाने वाली वस्तु की मात्रा में कितने प्रतिशत की कमी होती है?

- Ans**
- ☒ A. 10.5%
 - ☐ B. 12%
 - ☐ C. 10%
 - ☐ D. 12.5%

Question ID : 9744432566

Q.20 The cost of a mobile phone is 150% more than that of a calculator, and the cost of a computer is 140% more than that of a mobile phone. If the cost of a computer decreases by 20%, the cost of a mobile phone decreases by 5% and the cost of a calculator increases by 35%, then what is the percentage decrease/increase in the total cost of one computer, two mobile phones and 5 calculators, as compared to their total original cost?

- Ans**
- ☒ A. Increase, 1.875%
 - ☐ B. Decrease, 1.875%
 - ☐ C. Decrease, 1.525%
 - ☐ D. Increase, 1.325%

Question ID : 9744432567

Section : English Language and Comprehension

Q.1 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. But here there were students, teachers, scientists, ordinary middle-class people and friends of Kalam.
- B. Normally such ceremonies are attended by industrialists, politicians and other VIPs.
- C. It was a most unusual oath-taking ceremony.
- D. I saw Mrinalini Sarabhai, whose husband the late Dr Vikram Sarabhai was also a great scientist and knew Kalam well.

- Ans**
- ☐ A. BDAC
 - ☐ B. ADBC
 - ☐ C. CDAB
 - ☒ D. CBAD

Question ID : 9744432586

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

To mend one's fences

- Ans**
- ☐ A. To think of only oneself
 - ☒ B. To make peace with a person
 - ☐ C. To continue a regular activity
 - ☐ D. To live pleasantly

Question ID : 9744432590

Q.3 Select the most appropriate option to fill in the blank.

Fruit flies are tiny insects that _____ to ripe or rotting fruits and vegetables.

- Ans**
- ☐ A. are attracting
 - ☒ B. are attracted
 - ☐ C. had been attracted
 - ☐ D. attract

Question ID : 9744432590  Teachingninja.in

Q.4 Select the most appropriate option to fill in the blanks.

It was a _____ offence but he _____ let off with a _____.

- Ans
- ☒ A. serious; was; warning
 - ☐ B. light; was; bail
 - ☐ C. false; were; warning
 - ☐ D. serious; is; praise

Question ID : 9744432589

Q.5 Select the most appropriate option to fill in the blank.

_____ enjoying the monkey-show, the spectators hardly gave away any money.

- Ans
- ☐ A. In case
 - ☐ B. In order to
 - ☒ C. In spite of
 - ☐ D. Even if

Question ID : 9744432592

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

_____ everybody has left the office, Neha is still busy at her computer.

- Ans
- ☐ A. In case
 - ☐ B. In spite of
 - ☐ C. But for
 - ☒ D. Even though

Question ID : 9744432582

Q.7 Select the most appropriate option to fill in the blanks.

Animal videos are popular on the Internet _____ it is not always the cuteness or hilarity that _____ people.

- Ans
- ☒ A. but; attracts
 - ☐ B. if; likes
 - ☐ C. so; invites
 - ☐ D. because; pulls

Question ID : 9744432593

Q.8 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. The next, Dotso, was considerably larger.
- B. The first Tibetan village we reached was called Kyurik.
- C. There we ran into a number of monks—more than a hundred of them.
- D. It consisted of only two houses.

Ans ☒ A. BACD
☒ B. CDAB
☒ C. ADBC
☒ D. BDAC

Question ID : 9744432585

Q.9 Select the most appropriate synonym of the given word.

Embargo

Ans ☒ A. Authorisation
☒ B. Restriction
☒ C. Submission
☒ D. Sanction

Question ID : 9744432591

Q.10 Select the option that completes the given proverb correctly.

Don't count your chickens _____.

Ans ☒ A. as the Romans do
☒ B. when they catch the worms
☒ C. and put them in one basket
☒ D. before they hatch

Question ID : 9744432595

Q.11 Select the most appropriate option to fill in the blanks.

Visitors can scale the massive rock by _____ the 708-step path up to the top and on the way can _____ a shrine to the Virgin Mary.

Ans ☒ A. climbs; arrive
☒ B. climbed; trip
☒ C. climbing; visit
☒ D. climb; enter

Question ID : 9744432588

Q.12 Select the most appropriate ANTONYM of the given word.

Detrimental

- Ans
- ☒ A. Advantageous
 - ☐ B. Damaging
 - ☐ C. Mischievous
 - ☐ D. Adverse

Question ID : 9744432594

Q.13 Select the most appropriate option to fill in the blank.

By the end of the last year, he _____ the design of his hydrogen-powered car.

- Ans
- ☐ A. has completed
 - ☐ B. completed
 - ☒ C. had completed
 - ☐ D. was completed

Question ID : 9744432584

Q.14 Select the most appropriate option to fill in the blank.

He didn't tell anybody _____ his change of plan.

- Ans
- ☐ A. along
 - ☒ B. about
 - ☐ C. over
 - ☐ D. for

Question ID : 9744432581

Q.15 Given below are four sentences, out of which three are connected. Select the odd sentence out.

- Ans
- ☐ A. The name is Sanskrit and translates to 'Lion Rock'.
 - ☐ B. Sigiriya is one of Sri Lanka's most popular tourist attractions.
 - ☐ C. It's an amazing monolith that rises 1200 feet out of the lush forest.
 - ☒ D. Engineers still marvel over the genius of the city's urban planning.

Question ID : 9744432587

Comprehension:

Read the given passage and answer the questions that follow.

A prolific and distinct school of painting flourished in Bundi in the seventeenth century, which is remarkable for its unblemished colour sense and excellent formal design. *Bundi Ragamala* dated 1591, assigned to the earliest and formative phase of Bundi painting, has been painted at Chunar in the reign of Bhoj Singh (1585–1607), the Hada Rajput ruler. The Bundi School blossomed under the patronage of two rulers — Rao Chhattar Sal (1631–1659), who was made the governor of Delhi by Shahjahan and played a conspicuous role in the subjugation of the Deccan; and his son Rao Bhao Singh (1659–1682), who was an enthusiastic, self-indulging patron as revealed from numerous portraits that he commissioned of himself and other dated works. Innovative developments have been observed under the reigns of his successors Aniruddha Singh (1682–1702) and Budh Singh, whose whiskered face is visible in many portraits. Despite numerous political disputes and having lost his kingdom four times, he is known to have encouraged the art of painting. Painting activity entered its most accomplished phase albeit for a short time during the long reign of Budh Singh's son, Umed Singh (1749–1771), where it acquired refinement in minuteness of details. Bundi paintings during the eighteenth century appear to have imbibed Deccani aesthetics, such as love for bright and vivid colours. Umed Singh's successor Bishen Singh (1771–1821) ruled Bundi for 48 years and was a connoisseur of art. He had a keen interest in hunting, and him hunting wild animals frequently figures in the paintings of his period. Under his successor Ram Singh (1821–1889), the *chitrashalain* of the Bundi palace was decorated with mural paintings of royal processions, hunting scenes and episodes of Krishna's story. Last stages of painting at Bundi are best exemplified by several wall paintings in the palace. A distinct feature of Bundi and Kota School is a keen interest in the depiction of lush vegetation; picturesque landscape with varied flora, wildlife and birds; hills and thick jungles; and water bodies. It also has a series of fine equestrian portraits. The drawing of elephants is, particularly, unsurpassed in both Bundi and Kota. Bundi artists had their own standards of feminine beauty — women are petite with round faces, receding foreheads, sharp noses, full cheeks, sharply penciled eyebrows and a 'pinched' waist. Bundi's earliest phase of painting, *Bundi Ragamala* bears an inscription in Persian that dates back to 1591, mentions names of its artists — Shaykh Hasan, Shaykh Ali and Shaykh Hatim, who introduce themselves as pupils of master artists, Mir Sayyid Ali and Khwaja Abddus Samad of the Mughal court. They mention Chunar (near Benaras) as the place of origin of the painting, where Rao Bhoj Singh and his father Rao Surjan Singh maintained a palace.

SubQuestion No : 16

Q.16 Which feature of Deccani paintings was assimilated by Bundi paintings during the eighteenth century?

- Ans**
- ☒ A. Drawing women with round faces
 - ☒ B. Love for drawing of elephants
 - ☒ C. Drawing a series of hunting scenes
 - ☒ D. Love for bright and vivid colours



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Comprehension:

Read the given passage and answer the questions that follow.

A prolific and distinct school of painting flourished in Bundi in the seventeenth century, which is remarkable for its unblemished colour sense and excellent formal design. *Bundi Ragamala* dated 1591, assigned to the earliest and formative phase of Bundi painting, has been painted at Chunar in the reign of Bhoj Singh (1585–1607), the Hada Rajput ruler. The Bundi School blossomed under the patronage of two rulers — Rao Chhattar Sal (1631–1659), who was made the governor of Delhi by Shahjahan and played a conspicuous role in the subjugation of the Deccan; and his son Rao Bhao Singh (1659–1682), who was an enthusiastic, self-indulging patron as revealed from numerous portraits that he commissioned of himself and other dated works. Innovative developments have been observed under the reigns of his successors Aniruddha Singh (1682–1702) and Budh Singh, whose whiskered face is visible in many portraits. Despite numerous political disputes and having lost his kingdom four times, he is known to have encouraged the art of painting. Painting activity entered its most accomplished phase albeit for a short time during the long reign of Budh Singh's son, Umed Singh (1749–1771), where it acquired refinement in minuteness of details. Bundi paintings during the eighteenth century appear to have imbibed Deccani aesthetics, such as love for bright and vivid colours. Umed Singh's successor Bishen Singh (1771–1821) ruled Bundi for 48 years and was a connoisseur of art. He had a keen interest in hunting, and him hunting wild animals frequently figures in the paintings of his period. Under his successor Ram Singh (1821–1889), the *chitrashalain* of the Bundi palace was decorated with mural paintings of royal processions, hunting scenes and episodes of Krishna's story. Last stages of painting at Bundi are best exemplified by several wall paintings in the palace. A distinct feature of Bundi and Kota School is a keen interest in the depiction of lush vegetation; picturesque landscape with varied flora, wildlife and birds; hills and thick jungles; and water bodies. It also has a series of fine equestrian portraits. The drawing of elephants is, particularly, unsurpassed in both Bundi and Kota. Bundi artists had their own standards of feminine beauty — women are petite with round faces, receding foreheads, sharp noses, full cheeks, sharply penciled eyebrows and a 'pinched' waist. Bundi's earliest phase of painting, *Bundi Ragamala* bears an inscription in Persian that dates back to 1591, mentions names of its artists — Shaykh Hasan, Shaykh Ali and Shaykh Hatim, who introduce themselves as pupils of master artists, Mir Sayyid Ali and Khwaja Abddus Samad of the Mughal court. They mention Chunar (near Benaras) as the place of origin of the painting, where Rao Bhoj Singh and his father Rao Surjan Singh maintained a palace.

SubQuestion No : 17

Q.17 Which of the following statements is NOT true according to the passage?

- Ans** ☒ **A.** The *Bundi Ragamala* painting was painted in Benaras.
☐ **B.**
All artists of the Bundi School of Painting were not Rajputs.

☐ **C.**

In the 18th century, Bundi paintings assimilated Deccani paintings' bright and vivid colours.

 D.

Mir Sayyid Ali and Khwaja Abddus Samad were master artists of the Mughal court.

Question ID : 9744432600



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Comprehension:

Read the given passage and answer the questions that follow.

A prolific and distinct school of painting flourished in Bundi in the seventeenth century, which is remarkable for its unblemished colour sense and excellent formal design. *Bundi Ragamala* dated 1591, assigned to the earliest and formative phase of Bundi painting, has been painted at Chunar in the reign of Bhoj Singh (1585–1607), the Hada Rajput ruler. The Bundi School blossomed under the patronage of two rulers — Rao Chattar Sal (1631–1659), who was made the governor of Delhi by Shahjahan and played a conspicuous role in the subjugation of the Deccan; and his son Rao Bhao Singh (1659–1682), who was an enthusiastic, self-indulging patron as revealed from numerous portraits that he commissioned of himself and other dated works. Innovative developments have been observed under the reigns of his successors Aniruddha Singh (1682–1702) and Budh Singh, whose whiskered face is visible in many portraits. Despite numerous political disputes and having lost his kingdom four times, he is known to have encouraged the art of painting. Painting activity entered its most accomplished phase albeit for a short time during the long reign of Budh Singh's son, Umed Singh (1749–1771), where it acquired refinement in minuteness of details. Bundi paintings during the eighteenth century appear to have imbibed Deccani aesthetics, such as love for bright and vivid colours. Umed Singh's successor Bishen Singh (1771–1821) ruled Bundi for 48 years and was a connoisseur of art. He had a keen interest in hunting, and him hunting wild animals frequently figures in the paintings of his period. Under his successor Ram Singh (1821–1889), the *chitrashalain* of the Bundi palace was decorated with mural paintings of royal processions, hunting scenes and episodes of Krishna's story. Last stages of painting at Bundi are best exemplified by several wall paintings in the palace. A distinct feature of Bundi and Kota School is a keen interest in the depiction of lush vegetation; picturesque landscape with varied flora, wildlife and birds; hills and thick jungles; and water bodies. It also has a series of fine equestrian portraits. The drawing of elephants is, particularly, unsurpassed in both Bundi and Kota. Bundi artists had their own standards of feminine beauty — women are petite with round faces, receding foreheads, sharp noses, full cheeks, sharply penciled eyebrows and a 'pinched' waist. Bundi's earliest phase of painting, *Bundi Ragamala* bears an inscription in Persian that dates back to 1591, mentions names of its artists — Shaykh Hasan, Shaykh Ali and Shaykh Hatim, who introduce themselves as pupils of master artists, Mir Sayyid Ali and Khwaja Abddus Samad of the Mughal court. They mention Chunar (near Benaras) as the place of origin of the painting, where Rao Bhoj Singh and his father Rao Surjan Singh maintained a palace.

SubQuestion No : 18

Q.18 Match the following rulers with their characteristics.

Name of the ruler	Characteristics
a. Rao Chattar Sal	1. Had a keen interest in hunting
b. Budh Singh	2. Conquered the Deccan
c. Bishen Singh	3. Had a whiskered face

- Ans
- ☒ A. a-2, b-1, c-3
 - ☒ B. a-3, b-1, c-2
 - ☒ C. a-1, b-3, c-2
 - ☒ D. a-2, b-3, c-1

Question ID : 9744432599



Comprehension:

Read the given passage and answer the questions that follow.

A prolific and distinct school of painting flourished in Bundi in the seventeenth century, which is remarkable for its unblemished colour sense and excellent formal design. *Bundi Ragamala* dated 1591, assigned to the earliest and formative phase of Bundi painting, has been painted at Chunar in the reign of Bhoj Singh (1585–1607), the Hada Rajput ruler. The Bundi School blossomed under the patronage of two rulers — Rao Chhattar Sal (1631–1659), who was made the governor of Delhi by Shahjahan and played a conspicuous role in the subjugation of the Deccan; and his son Rao Bhao Singh (1659–1682), who was an enthusiastic, self-indulging patron as revealed from numerous portraits that he commissioned of himself and other dated works. Innovative developments have been observed under the reigns of his successors Aniruddha Singh (1682–1702) and Budh Singh, whose whiskered face is visible in many portraits. Despite numerous political disputes and having lost his kingdom four times, he is known to have encouraged the art of painting. Painting activity entered its most accomplished phase albeit for a short time during the long reign of Budh Singh's son, Umed Singh (1749–1771), where it acquired refinement in minuteness of details. Bundi paintings during the eighteenth century appear to have imbibed Deccani aesthetics, such as love for bright and vivid colours. Umed Singh's successor Bishen Singh (1771–1821) ruled Bundi for 48 years and was a connoisseur of art. He had a keen interest in hunting, and him hunting wild animals frequently figures in the paintings of his period. Under his successor Ram Singh (1821–1889), the *chitrashalain* of the Bundi palace was decorated with mural paintings of royal processions, hunting scenes and episodes of Krishna's story. Last stages of painting at Bundi are best exemplified by several wall paintings in the palace. A distinct feature of Bundi and Kota School is a keen interest in the depiction of lush vegetation; picturesque landscape with varied flora, wildlife and birds; hills and thick jungles; and water bodies. It also has a series of fine equestrian portraits. The drawing of elephants is, particularly, unsurpassed in both Bundi and Kota. Bundi artists had their own standards of feminine beauty — women are petite with round faces, receding foreheads, sharp noses, full cheeks, sharply penciled eyebrows and a 'pinched' waist. Bundi's earliest phase of painting, *Bundi Ragamala* bears an inscription in Persian that dates back to 1591, mentions names of its artists — Shaykh Hasan, Shaykh Ali and Shaykh Hatim, who introduce themselves as pupils of master artists, Mir Sayyid Ali and Khwaja Abddus Samad of the Mughal court. They mention Chunar (near Benaras) as the place of origin of the painting, where Rao Bhoj Singh and his father Rao Surjan Singh maintained a palace.

SubQuestion No : 19

Q.19 The passage is mainly about:

- Ans
- ☐ A. the activities of various Rajput rulers
 - ☐ B. the rulers and artists in the 16th-18th centuries
 - ☒ C. the Bundi School of painting
 - ☐ D. the painting named *Bundi Ragamala*



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Comprehension:

Read the given passage and answer the questions that follow.

A prolific and distinct school of painting flourished in Bundi in the seventeenth century, which is remarkable for its unblemished colour sense and excellent formal design. *Bundi Ragamala* dated 1591, assigned to the earliest and formative phase of Bundi painting, has been painted at Chunar in the reign of Bhoj Singh (1585–1607), the Hada Rajput ruler. The Bundi School blossomed under the patronage of two rulers — Rao Chattar Sal (1631–1659), who was made the governor of Delhi by Shahjahan and played a conspicuous role in the subjugation of the Deccan; and his son Rao Bhao Singh (1659–1682), who was an enthusiastic, self-indulging patron as revealed from numerous portraits that he commissioned of himself and other dated works. Innovative developments have been observed under the reigns of his successors Aniruddha Singh (1682–1702) and Budh Singh, whose whiskered face is visible in many portraits. Despite numerous political disputes and having lost his kingdom four times, he is known to have encouraged the art of painting. Painting activity entered its most accomplished phase albeit for a short time during the long reign of Budh Singh's son, Umed Singh (1749–1771), where it acquired refinement in minuteness of details. Bundi paintings during the eighteenth century appear to have imbibed Deccani aesthetics, such as love for bright and vivid colours. Umed Singh's successor Bishen Singh (1771–1821) ruled Bundi for 48 years and was a connoisseur of art. He had a keen interest in hunting, and him hunting wild animals frequently figures in the paintings of his period. Under his successor Ram Singh (1821–1889), the *chitrashalain* of the Bundi palace was decorated with mural paintings of royal processions, hunting scenes and episodes of Krishna's story. Last stages of painting at Bundi are best exemplified by several wall paintings in the palace. A distinct feature of Bundi and Kota School is a keen interest in the depiction of lush vegetation; picturesque landscape with varied flora, wildlife and birds; hills and thick jungles; and water bodies. It also has a series of fine equestrian portraits. The drawing of elephants is, particularly, unsurpassed in both Bundi and Kota. Bundi artists had their own standards of feminine beauty — women are petite with round faces, receding foreheads, sharp noses, full cheeks, sharply penciled eyebrows and a 'pinched' waist. Bundi's earliest phase of painting, *Bundi Ragamala* bears an inscription in Persian that dates back to 1591, mentions names of its artists — Shaykh Hasan, Shaykh Ali and Shaykh Hatim, who introduce themselves as pupils of master artists, Mir Sayyid Ali and Khwaja Abddus Samad of the Mughal court. They mention Chunar (near Benaras) as the place of origin of the painting, where Rao Bhoj Singh and his father Rao Surjan Singh maintained a palace.

SubQuestion No : 20

Q.20 Under whose reign was the Bundi palace decorated with mural paintings of royal processions, hunting scenes and episodes of Krishna's story?

- Ans**
- ☒ A. Bishen Singh
 - ☒ B. Umed Singh
 - ☒ C. Ram Singh
 - ☒ D. Budh Singh

Question ID : 9744432598

Section : Hindi Language and Comprehension

Q.1 निम्न में से 'अमित' का विलोम शब्द है।

- Ans
- ✓ A. परिमित
 - ✗ B. परिवीत
 - ✗ C. परिसर
 - ✗ D. परिहित

Question ID : 9744432611

Q.2 'मेढक' का तत्सम शब्द है।

- Ans
- ✗ A. मन्मथ
 - ✗ B. मयट
 - ✗ C. मन्मन
 - ✓ D. मण्डूक

Question ID : 9744432608

Q.3 निम्न में से 'टिसुआ' का पर्याय है।

- Ans
- ✗ A. टेसू
 - ✗ B. टीका
 - ✓ C. आँसु
 - ✗ D. गला

Question ID : 9744432604

Q.4 वाक्य के किस खण्ड में अशुद्धि है चयन करें।

हम किसी भी कर्मचारी के काम में हस्ताक्षेप नहीं करते।

- Ans
- ✓ A. में हस्ताक्षेप
 - ✗ B. कर्मचारी के काम
 - ✗ C. हम किसी भी
 - ✗ D. नहीं करते।

Question ID : 9744432605

Q.5 निम्न में से देशज शब्द है।

- Ans
- ☐ A. फैसला
 - ☐ B. अजब
 - ☐ C. मोर
 - ☒ D. खिचड़ी

Question ID : 9744432610

Q.6 निम्न में से कौन-सी लोकोक्ति अपने अर्थ से असुमेलित है।

- Ans
- ☐ A.
का वर्षा जब कृषी सुखानी - अवसर निकल जाने पर सहायता व्यर्थ होती है।
 - ☐ B. आम के आम गुठलियों के दाम - दोहरा लाभ
 - ☒ C.
खिसियानी बिल्ली खंभा नोचे - भूखा आदमी खाने ले लिए कुछ भी करता है।
 - ☐ D.
उल्टा चोर कोतवाल को डाँटे - दोषी होने पर भी धौंस जमाना

Question ID : 9744432616

Q.7 'दाँव लेना' मुहावरे का अर्थ है।

- Ans
- ☒ A. बदला चुकाना
 - ☐ B. चाल चलना
 - ☐ C. बाज़ी पर रखना
 - ☐ D. अवसर देखना

Question ID : 9744432615

Q.8 निम्न में से स्त्रीलिंग शब्द है।

- Ans
- ☒ A. अवस्था
 - ☐ B. लश्कर
 - ☐ C. लिबास
 - ☐ D. मोती

Question ID : 9744432613

Q.9 'पंजर' का पर्याय निम्न में से है।

- Ans
- ☐ A. ठिठोली
 - ☒ B. ठठरी
 - ☐ C. ठप्पा
 - ☐ D. टिटहरी

Question ID : 9744432603

Q.10 निम्न में से तद्भव-तत्सम का कौन-सा युग्म असुमेलित है।

- Ans
- ☐ A. सोना - स्वर्ण
 - ☐ B. सौंप - समर्पय
 - ☒ C. सौंध - सौगंध
 - ☐ D. सौंठ - शुष्ठि

Question ID : 9744432609

Q.11 निम्न में से कौन-सा विलोम युग्म असुमेलित है।

- Ans
- ☐ A. अनुग्रह - विग्रह
 - ☐ B. अनाहूत - आहूत
 - ☐ C. अतुल - तुल्य
 - ☒ D. अनंत - असीम

Question ID : 9744432612

Q.12 वाक्य विन्यास की दृष्टि से शुद्ध वाक्य का चयन कीजिए।

- Ans
- ☐ A. कई घटनाएँ उसे अपनी जवानी की याद हैं।
 - ☐ B. अपने भविष्य का ध्यान रखता है समझदार आदमी।
 - ☐ C. ठीक नहीं है उत्तर देने का यह ढंग।
 - ☒ D. उसके आने का समय निश्चित नहीं है।

Question ID : 9744432606

Q.13 दिए गए वाक्य के लिए एक शब्द होगा।
जिसके लिए कोई बाधा या रोक-टोक न हो।

- Ans
- ✓ A. अबाध
 - ✗ B. अबाद
 - ✗ C. अबोध
 - ✗ D. अबाध्य

Question ID : 9744432614

Q.14 निम्न में से 'तड़ाग' का पर्याय है।

- Ans
- ✗ A. नाला
 - ✓ B. पोखर
 - ✗ C. नदी
 - ✗ D. समुद्र

Question ID : 9744432602

Q.15 वाक्य विन्यास की दृष्टि से अशुद्ध वाक्य का चयन कीजिए।

- Ans
- ✗ A. जब तक मजबूर नहीं करोगे, वह मानेगा नहीं।
 - ✗ B. उसकी असावधानी के कारण हम हार गए।
 - ✓ C. वह यहाँ से सदा के लिए चला गया कि यह अच्छा हुआ।
 - ✗ D. सब नष्ट हो जाने पर सारी चिंता दूर हो गई।

Question ID : 9744432607

Comprehension:

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

प्रगतिवादी काव्य की संज्ञा उस काव्य को दी गयी जो छायावाद के समाप्ति काल में 1936 के आसपास से सामाजिक चेतना को लेकर निर्मित होना आरम्भ हुआ। यह काव्यधारा मार्क्सवादी दर्शन के आलोक में सामाजिक चेतना और भावबोध को अपना लक्ष्य बनाकर चली। एक ओर भारतीय समाज में उभरता हुआ जनसंकट था, तो दूसरी ओर रूस में मार्क्सवादी दर्शन के आधार पर स्थापित साम्यवाद था जो वहाँ के विषम संकट और संघर्ष से गुजरे जनजीवन को बल दे रहा था, जो सामन्तवाद और पूँजीवाद की विभीषिकाओं को कुचलकर सर्वहारा का अधिनायकत्व स्थापित कर रहा था। 1934 में कांग्रेस सोशलिस्ट पार्टी का जन्म हुआ। जिससे विदित होता है कि राजनीतिक स्तर पर मार्क्सवाद स्वीकार किया जा रहा था। साहित्य भी उससे प्रभावित हुआ और प्रगतिवादी साहित्य का आंदोलन आरम्भ हुआ। 1936 में सज्जाद ज़हीर, मुल्कराज आनंद के प्रयत्नों से भारत में 'प्रोग्रेसिव राइटर्स एसोसियेशन' नामक संस्था की स्थापना हुई जिसका प्रथम अधिवेशन प्रेमचंद की अध्यक्षता में लखनऊ में हुआ। प्रगतिवाद रचना और आलोचना के क्षेत्र में सर्वथा नवीन दृष्टिकोण लेकर आया। यह सामाजिक यथार्थ की अभिव्यक्ति को ही रचना का उद्देश्य मानता है। आज के युग में बुनियादी शक्तियाँ वे हैं जो पूँजीवाद को नष्ट कर समाजवाद स्थापित करने के लिए प्रयत्नशील हैं। इन बुनियादी शक्तियों को पहचानने और उनका समर्थन करनेवाला साहित्य अनिवार्य रूप से किसानों और मज़दूरों के संघर्ष को रूपायित कर उसे बल प्रदान करता है तथा पूँजीवादी शक्तियों की शोषक, स्वार्थी, स्वकेंद्रित, जर्जर, विसंगतिमय प्रवृत्तियों पर चोट करता है। प्रगतिवाद ने सौंदर्य को नये दृष्टिकोण से देखा वह वर्तमान जन-जीवन में सौंदर्य खोजता है। प्रगतिवाद साहित्य को विशेष अभिप्राय से, किसी विशेष दृष्टि से कला की रचना करना मानता है।

SubQuestion No : 16

Q.16 प्रोग्रेसिव राइटर्स एसोसियेशन के प्रथम अध्यक्ष थे।

Ans

- ☒ A. मुल्कराज आनंद
- ☒ B. प्रेमचंद
- ☒ C. सज्जाद ज़हीर
- ☒ D. महात्मा गाँधी



Comprehension:

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

प्रगतिवादी काव्य की संज्ञा उस काव्य को दी गयी जो छायावाद के समाप्ति काल में 1936 के आसपास से सामाजिक चेतना को लेकर निर्मित होना आरम्भ हुआ। यह काव्यधारा मार्क्सवादी दर्शन के आलोक में सामाजिक चेतना और भावबोध को अपना लक्ष्य बनाकर चली। एक ओर भारतीय समाज में उभरता हुआ जनसंकट था, तो दूसरी ओर रूस में मार्क्सवादी दर्शन के आधार पर स्थापित साम्यवाद था जो वहाँ के विषम संकट और संघर्ष से गुजरे जनजीवन को बल दे रहा था, जो सामन्तवाद और पूँजीवाद की विभीषिकाओं को कुचलकर सर्वहारा का अधिनायकत्व स्थापित कर रहा था। 1934 में कांग्रेस सोशलिस्ट पार्टी का जन्म हुआ। जिससे विदित होता है कि राजनीतिक स्तर पर मार्क्सवाद स्वीकार किया जा रहा था। साहित्य भी उससे प्रभावित हुआ और प्रगतिवादी साहित्य का आंदोलन आरम्भ हुआ। 1936 में सज्जाद ज़हीर, मुल्कराज आनंद के प्रयत्नों से भारत में 'प्रोग्रेसिव राइटर्स एसोसियेशन' नामक संस्था की स्थापना हुई जिसका प्रथम अधिवेशन प्रेमचंद की अध्यक्षता में लखनऊ में हुआ। प्रगतिवाद रचना और आलोचना के क्षेत्र में सर्वथा नवीन दृष्टिकोण लेकर आया। यह सामाजिक यथार्थ की अभिव्यक्ति को ही रचना का उद्देश्य मानता है। आज के युग में बुनियादी शक्तियाँ वे हैं जो पूँजीवाद को नष्ट कर समाजवाद स्थापित करने के लिए प्रयत्नशील हैं। इन बुनियादी शक्तियों को पहचानने और उनका समर्थन करनेवाला साहित्य अनिवार्य रूप से किसानों और मज़दूरों के संघर्ष को रूपायित कर उसे बल प्रदान करता है तथा पूँजीवादी शक्तियों की शोषक, स्वार्थी, स्वकेंद्रित, जर्जर, विसंगतिमय प्रवृत्तियों पर चोट करता है। प्रगतिवाद ने सौंदर्य को नये दृष्टिकोण से देखा वह वर्तमान जन-जीवन में सौंदर्य खोजता है। प्रगतिवाद साहित्य को विशेष अभिप्राय से, किसी विशेष दृष्टि से कला की रचना करना मानता है।

SubQuestion No : 17

Q.17 हिंदी साहित्य में प्रगतिवाद का प्रारम्भ कब से स्वीकार किया गया है?

- Ans
- ☒ A. 1936
 - ☐ B. 1934
 - ☐ C. 1938
 - ☐ D. 1935

Question ID : 9744432618

Comprehension:

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

प्रगतिवादी काव्य की संज्ञा उस काव्य को दी गयी जो छायावाद के समाप्ति काल में 1936 के आसपास से सामाजिक चेतना को लेकर निर्मित होना आरम्भ हुआ। यह काव्यधारा मार्क्सवादी दर्शन के आलोक में सामाजिक चेतना और भावबोध को अपना लक्ष्य बनाकर चली। एक ओर भारतीय समाज में उभरता हुआ जनसंकट था, तो दूसरी ओर रूस में मार्क्सवादी दर्शन के आधार पर स्थापित साम्यवाद था जो वहाँ के विषम संकट और संघर्ष से गुजरे जनजीवन को बल दे रहा था, जो सामन्तवाद और पूँजीवाद की विभीषिकाओं को कुचलकर सर्वहारा का अधिनायकत्व स्थापित कर रहा था। 1934 में कांग्रेस सोशलिस्ट पार्टी का जन्म हुआ। जिससे विदित होता है कि राजनीतिक स्तर पर मार्क्सवाद स्वीकार किया जा रहा था। साहित्य भी उससे प्रभावित हुआ और प्रगतिवादी साहित्य का आंदोलन आरम्भ हुआ। 1936 में सज्जाद जहीर, मुल्कराज आनंद के प्रयत्नों से भारत में 'प्रोग्रेसिव राइटर्स एसोसियेशन' नामक संस्था की स्थापना हुई जिसका प्रथम अधिवेशन प्रेमचंद की अध्यक्षता में लखनऊ में हुआ। प्रगतिवाद रचना और आलोचना के क्षेत्र में सर्वथा नवीन दृष्टिकोण लेकर आया। यह सामाजिक यथार्थ की अभिव्यक्ति को ही रचना का उद्देश्य मानता है। आज के युग में बुनियादी शक्तियाँ वे हैं जो पूँजीवाद को नष्ट कर समाजवाद स्थापित करने के लिए प्रयत्नशील हैं। इन बुनियादी शक्तियों को पहचानने और उनका समर्थन करनेवाला साहित्य अनिवार्य रूप से किसानों और मज़दूरों के संघर्ष को रूपायित कर उसे बल प्रदान करता है तथा पूँजीवादी शक्तियों की शोषक, स्वार्थी, स्वकेंद्रित, जर्जर, विसंगतिमय प्रवृत्तियों पर चोट करता है। प्रगतिवाद ने सौंदर्य को नये दृष्टिकोण से देखा वह वर्तमान जन-जीवन में सौंदर्य खोजता है। प्रगतिवाद साहित्य को विशेष अभिप्राय से, किसी विशेष दृष्टि से कला की रचना करना मानता है।

SubQuestion No : 18

Q.18 प्रगतिवाद के विषय में असत्य है।

Ans ☒ A.

इसने काव्य को सोद्देश्य माना 'कला कला के लिए' उनका ध्येय नहीं था।

☒ B.

यह काव्यधारा प्रयोगवाद युग की समाप्ति के पश्चात प्रचलन में आई।

☒ C.

प्रगतिवादी कवि के लिए सौंदर्य वर्तमान जन-जीवन में उपस्थित है।

☒ D.

समाजवादी दर्शन, सामाजिक चेतना और भावबोध इसका काव्य लक्ष्य था।



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Comprehension:

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

प्रगतिवादी काव्य की संज्ञा उस काव्य को दी गयी जो छायावाद के समाप्ति काल में 1936 के आसपास से सामाजिक चेतना को लेकर निर्मित होना आरम्भ हुआ। यह काव्यधारा मार्क्सवादी दर्शन के आलोक में सामाजिक चेतना और भावबोध को अपना लक्ष्य बनाकर चली। एक ओर भारतीय समाज में उभरता हुआ जनसंकट था, तो दूसरी ओर रूस में मार्क्सवादी दर्शन के आधार पर स्थापित साम्यवाद था जो वहाँ के विषम संकट और संघर्ष से गुजरे जनजीवन को बल दे रहा था, जो सामन्तवाद और पूँजीवाद की विभीषिकाओं को कुचलकर सर्वहारा का अधिनायकत्व स्थापित कर रहा था। 1934 में कांग्रेस सोशलिस्ट पार्टी का जन्म हुआ। जिससे विदित होता है कि राजनीतिक स्तर पर मार्क्सवाद स्वीकार किया जा रहा था। साहित्य भी उससे प्रभावित हुआ और प्रगतिवादी साहित्य का आंदोलन आरम्भ हुआ। 1936 में सज्जाद ज़हीर, मुल्कराज आनंद के प्रयत्नों से भारत में 'प्रोग्रेसिव राइटर्स एसोसियेशन' नामक संस्था की स्थापना हुई जिसका प्रथम अधिवेशन प्रेमचंद की अध्यक्षता में लखनऊ में हुआ। प्रगतिवाद रचना और आलोचना के क्षेत्र में सर्वथा नवीन दृष्टिकोण लेकर आया। यह सामाजिक यथार्थ की अभिव्यक्ति को ही रचना का उद्देश्य मानता है। आज के युग में बुनियादी शक्तियाँ वे हैं जो पूँजीवाद को नष्ट कर समाजवाद स्थापित करने के लिए प्रयत्नशील हैं। इन बुनियादी शक्तियों को पहचानने और उनका समर्थन करनेवाला साहित्य अनिवार्य रूप से किसानों और मज़दूरों के संघर्ष को रूपायित कर उसे बल प्रदान करता है तथा पूँजीवादी शक्तियों की शोषक, स्वार्थी, स्वकेंद्रित, जर्जर, विसंगतिमय प्रवृत्तियों पर चोट करता है। प्रगतिवाद ने सौंदर्य को नये दृष्टिकोण से देखा वह वर्तमान जन-जीवन में सौंदर्य खोजता है। प्रगतिवाद साहित्य को विशेष अभिप्राय से, किसी विशेष दृष्टि से कला की रचना करना मानता है।

SubQuestion No : 19

Q.19 प्रगतिवाद के अनुसार रचना का उद्देश्य क्या है?

Ans

- ☒ A. लोकमंगल की अवधारणा
- ☒ B. ईश्वर की भक्ति
- ☒ C. सामाजिक यथार्थ की अभिव्यक्ति
- ☒ D. पाठकों को आनंद की अनुभूति कराना

Question ID : 9744432621

Comprehension:

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

प्रगतिवादी काव्य की संज्ञा उस काव्य को दी गयी जो छायावाद के समाप्ति काल में 1936 के आसपास से सामाजिक चेतना को लेकर निर्मित होना आरम्भ हुआ। यह काव्यधारा मार्क्सवादी दर्शन के आलोक में सामाजिक चेतना और भावबोध को अपना लक्ष्य बनाकर चली। एक ओर भारतीय समाज में उभरता हुआ जनसंकट था, तो दूसरी ओर रूस में मार्क्सवादी दर्शन के आधार पर स्थापित साम्यवाद था जो वहाँ के विषम संकट और संघर्ष से गुजरे जनजीवन को बल दे रहा था, जो सामन्तवाद और पूँजीवाद की विभीषिकाओं को कुचलकर सर्वहारा का अधिनायकत्व स्थापित कर रहा था। 1934 में कांग्रेस सोशलिस्ट पार्टी का जन्म हुआ। जिससे विदित होता है कि राजनीतिक स्तर पर मार्क्सवाद स्वीकार किया जा रहा था। साहित्य भी उससे प्रभावित हुआ और प्रगतिवादी साहित्य का आंदोलन आरम्भ हुआ। 1936 में सज्जाद ज़हीर, मुल्कराज आनंद के प्रयत्नों से भारत में 'प्रोग्रेसिव राइटर्स एसोसिएशन' नामक संस्था की स्थापना हुई जिसका प्रथम अधिवेशन प्रेमचंद की अध्यक्षता में लखनऊ में हुआ। प्रगतिवाद रचना और आलोचना के क्षेत्र में सर्वथा नवीन दृष्टिकोण लेकर आया। यह सामाजिक यथार्थ की अभिव्यक्ति को ही रचना का उद्देश्य मानता है। आज के युग में बुनियादी शक्तियाँ वे हैं जो पूँजीवाद को नष्ट कर समाजवाद स्थापित करने के लिए प्रयत्नशील हैं। इन बुनियादी शक्तियों को पहचानने और उनका समर्थन करनेवाला साहित्य अनिवार्य रूप से किसानों और मज़दूरों के संघर्ष को रूपायित कर उसे बल प्रदान करता है तथा पूँजीवादी शक्तियों की शोषक, स्वार्थी, स्वकेंद्रित, जर्जर, विसंगतिमय प्रवृत्तियों पर चोट करता है। प्रगतिवाद ने सौंदर्य को नये दृष्टिकोण से देखा वह वर्तमान जन-जीवन में सौंदर्य खोजता है। प्रगतिवाद साहित्य को विशेष अभिप्राय से, किसी विशेष दृष्टि से कला की रचना करना मानता है।

SubQuestion No : 20

Q.20 प्रगतिवादी काव्य किस दर्शन से प्रभावित है।

Ans

- ✓ A. मार्क्सवाद
- ✗ B. गाँधीवादी दर्शन
- ✗ C. बौद्धदर्शन
- ✗ D. काल्विनवाद



Section : Discipline 1

Q.1 How many 2 to 1 multiplexers are required to implement 4 to 1 multiplexer?

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

Question ID : 9744432637

Q.2 The storage elements used in clocked sequential circuits are called _____.

- Ans
- ☐ A. multiplexers
 - ☐ B. demultiplexers
 - ☒ C. flip-flops
 - ☐ D. encoders

Question ID : 9744432640

Q.3 Which of the following is a binary equivalent of decimal fraction 0.625?

- Ans
- ☒ A. 0.101
 - ☐ B. 0.001
 - ☐ C. 0.111
 - ☐ D. 0.011

Question ID : 9744432632

Q.4 In wireless communication, radio waves at low frequencies pass through obstacles well, but the power falls off sharply with distance from the source. This attenuation is called _____.

- Ans
- ☒ A. path loss
 - ☐ B. data loss
 - ☐ C. route loss
 - ☐ D. signal loss

Question ID : 9744432626

Q.5 Which of the following is a process of bringing out details that are obscured, or simply to highlight certain features of interest in an image during image processing?

- Ans
- ☐ A. Image Acquisition
 - ☐ B. Image Compression
 - ☒ C. Image Enhancement
 - ☐ D. Image Restoration

Question ID : 97444

Q.6 Which of the following with reference to flip-flops is FALSE?

Ans ☒ A.

The difference between various types of flip-flops is in the number of inputs.

☒ B.

The storage elements employed in clocked sequential circuits are called flip-flops.

☒ C.

A flip-flop maintains a binary state independent of a clock pulse to switch states.

☒ D.

A flip-flop is a binary cell capable of storing one bit of information.

Question ID : 9744432642

Q.7 Which flip-flop does the given characteristic table represent?

I1	I2	$Q(t+1)$	
0	0	$Q(t)$	No change
0	1	0	Clear to 0
1	0	1	Set to 1
1	1	$Q'(t)$	Complement

Ans ☒ A. SR

☒ B. D

☒ C. JK

☒ D. T

Question ID : 9744432641

Q.8 Which of the following statements with reference to Octal number system is true?

Ans ☒ A.

The base $16 = 2^4$, every 4-bit group of binary values can be represented by a hexadecimal digit.

☒ B.

The symbols used are 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E and F.

☒ C. It is a positional weighted system.

☒ D. Its base or radix is 16.

Question ID : 9744432633

Q.9 With reference to neighbours of pixel in image processing, a pixel p at coordinates (x, y) has four horizontal and vertical neighbours whose coordinates are given by: (x + 1, y), (x - 1, y), (x, y + 1), _____.

Ans ☒ A. (x, y + 1)

☒ B. (x, y * 1)

☒ C. (x, y - 1)

☒ D. (x, y/1)

Q.10 Which of the following is NOT a method used in soft computing for knowledge representation and for mimicking the reasoning and decision-making processes of a human?

- Ans
- ☒ A. Computer networks
 - ☐ B. Neural networks
 - ☐ C. Fuzzy logic
 - ☐ D. Genetic algorithms

Question ID : 9744432629

Q.11 With reference to image processing, sampling refers to _____.

- Ans
- ☐ A. extracting image components
 - ☐ B. assigning labels to an object
 - ☒ C. digitalising the coordinate values
 - ☐ D. digitalising the amplitude values

Question ID : 9744432624

Q.12 Which of the following is a non-weighted BCD code?

- Ans
- ☐ A. GRAY
 - ☐ B. Binary
 - ☒ C. Excess-3
 - ☐ D. ASCII

Question ID : 9744432636

Q.13 A 2^n -to-1 multiplexer has _____ input data lines and _____ input selection lines whose bit combinations determine which input data is selected for the output.

- Ans
- ☒ A. 2^n ; n
 - ☐ B. 2^{n+1} ; n
 - ☐ C. 2; n
 - ☐ D. 2^{n-1} ; n

Question ID : 9744432638

Q.14 With reference to wireless computer networks, the basic unit of a Bluetooth system is a piconet, which consists of a master node and up to seven active slave nodes within a distance of _____ meters and an interconnected collection of these piconets is called _____.

- Ans
- ☐ A. 25; tight net
 - ☒ B. 10; scatternet
 - ☐ C. 15; virtual net
 - ☐ D. 20; intranet

Q.15 Which of the following is a binary equivalent of hexadecimal number F?

- Ans
- ☐ A. 1001
 - ☐ B. 0110
 - ☒ C. 1111
 - ☐ D. 0011

Question ID : 9744432634

Q.16 What is the BCD 5421 coded equivalent to the decimal number 567?

- Ans
- ☐ A. 1000 0100 1001
 - ☐ B. 0101 0110 0111
 - ☐ C. 0111 1000 1001
 - ☒ D. 1000 0100 1010

Question ID : 9744432635

Q.17 Which of the following is a part of the network layer software in OSI model responsible for deciding which output line an incoming packet should be transmitted on?

- Ans
- ☐ A. Multiple access protocol
 - ☒ B. Routing algorithm
 - ☐ C. Framing
 - ☐ D. Data link protocol

Question ID : 9744432627

Q.18 With reference to fuzzy logic in Soft Computing, a fuzzy set may be represented by a membership function and this function gives the _____ of membership within the set.

- Ans
- ☐ A. Average
 - ☐ B. Count
 - ☒ C. Grade
 - ☐ D. Rank

Question ID : 9744432630

Q.19 Which of the following statements with reference to Soft Computing is FALSE?

- Ans
- ☐ A. It gives approximate results.
 - ☐ B. It takes less computation time.
 - ☒ C. It is mainly based on binary logic and numerical systems.
 - ☐ D. It depends on approximation and dispositional.

Question ID : 9744432631

Q.20 Which input is used for expanding two or more multiplexers to a multiplexer with a larger number of inputs?

- Ans**
- ☒ A. Enable
 - ☐ B. Selection
 - ☐ C. Disable
 - ☐ D. Bias

Question ID : 9744432639

Section : Discipline 2

Q.1 In design process of sequential circuit, the circuit is specified by a _____ that relates outputs and next states as a function of inputs and present states.

- Ans**
- ☐ A. Boolean table
 - ☐ B. design table
 - ☐ C. structure table
 - ☒ D. state table

Question ID : 9744432652

Q.2 In C++, the class that inherits from another class is referred to as _____.

- Ans**
- ☐ A. obtained class
 - ☒ B. derived class
 - ☐ C. base class
 - ☐ D. accessed class

Question ID : 9744432655

Q.3 A combinational circuit that performs the arithmetic addition of two bits is called _____.

- Ans**
- ☒ A. a half-adder
 - ☐ B. an encoder
 - ☐ C. a decoder
 - ☐ D. a full-adder

Question ID : 9744432644

Q.4 One type of flip-flop available in clocked sequential circuits is the T flip-flop. What does 'T' stand for?

- Ans**
- ☐ A. Transfer
 - ☒ B. Toggle
 - ☐ C. Truncated
 - ☐ D. Trained

Question ID : 9744432644  Teachingninja.in

Q.5 Which of the following statements with reference to programmed I/O is FALSE?

Ans ☒ A.

In the programmed I/O method, the I/O device will have direct access to memory.

☒ B.

Programmed I/O is a time-consuming process since it keeps the processor busy needlessly.

☒ C.

A transfer from an I/O device to memory requires the execution of several instructions by the CPU.

☒ D.

Transferring data under program control requires constant monitoring of the peripheral by the CPU.

Question ID : 9744432662

Q.6 The 3-to-8-line decoder is also known as _____.

Ans ☒ A. binary-to-binary decoder

☒ B. octal-to-binary decoder

☒ C. decimal-to-decimal decoder

☒ D. binary-to-octal decoder

Question ID : 9744432646

Q.7 The full-adder circuit consists of _____ and _____ gate.

Ans ☒ A. 2 half-adders; an AND

☒ B. 2 half-adders; a NAND

☒ C. 3 half-adders; an OR

☒ D. 2 half-adders; an OR

Question ID : 9744432645

Q.8 In which of the following processes, during floating point arithmetic operations is mantissa adjusted so that the most significant bit is nonzero?

Ans ☒ A. Restoration

☒ B. Biasing

☒ C. Aliasing

☒ D. Normalisation

Question ID : 9744432660

Q.9 Which of the following statements with reference to function overloading in C++ is FALSE?

Ans ☒ A.

You can overload function declarations that differ only by return type.

☒ B.

The process of selecting the most appropriate overloaded function or operator is called overload resolution.

☒ C.

There should be a difference in the number or kind of parameters.

☒ D.

Function overloading can also be treated as compile-time polymorphism.

Question ID : 9744432657

Q.10 A sequential circuit is an interconnection of _____ and _____.

Ans ☒ A. flip-flops; gates

☒ B. clocks; flip-flops

☒ C. flip-flops; registers

☒ D. clocks; gates

Question ID : 9744432649

Q.11 Which of the following is NOT a way to represent negative fixed-point binary numbers?

Ans ☒ A. Unsigned magnitude

☒ B. Signed-1's complement

☒ C. Signed-2's complement

☒ D. Signed magnitude

Question ID : 9744432658

Q.12 With reference to data transfer in a computer system, Programmed Input/Output operations are the result of Input/Output instructions with the help of _____.

Ans ☒ A. interrupt

☒ B. computer program

☒ C. DMA

☒ D. external instructions

Question ID : 9744432661

Q.13 In C++, which of the following defines how the members (attributes and methods) of a class can be accessed?

- Ans**
- ☐ A. Exceptions
 - ☐ B. Structures
 - ☐ C. References
 - ☒ D. Access specifiers

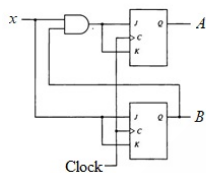
Question ID : 9744432653

Q.14 The multiplexer is also called a _____ since it selects one of many data inputs and steers the binary information to the output.

- Ans**
- ☐ A. data distributor
 - ☐ B. data constructor
 - ☐ C. data convertor
 - ☒ D. data selector

Question ID : 9744432648

Q.15 In the given 2-bit binary counter, if both J, K, and x are equal to 0, then the state of flip-flops will _____ when clock pulses are applied continuously.



- Ans**
- ☐ A. not be determined
 - ☒ B. not change
 - ☐ C. change to opposite state
 - ☐ D. give random state

Question ID : 9744432650

Q.16 What will be the output of following C++ code?

```
#include <iostream>
using namespace std;
int main()
{
    int x = 10;
    int y = 10;

    if (!(x ^ y))
        cout << " x is equal to y ";
    else
        cout << " x is not equal to y ";
    return 0;
}
```

- Ans
- ☒ A. x is equal to y
 - ☐ B. x is not equal to y
 - ☐ C. Compilation error
 - ☐ D. Run time error

Question ID : 9744432656

Q.17 Which of the following is an application of decoder?

- Ans
- ☐ A. Serial-to-parallel conversion
 - ☐ B. Octal-to-binary conversion
 - ☒ C. Binary-to-octal conversion
 - ☐ D. Parallel-to-serial conversion

Question ID : 9744432647

Q.18 Which of the following statements with reference to constructor in C++ is FALSE?

- Ans
- ☐ A. It does not have any return value.
 - ☒ B. It should not have the same name as the class.
 - ☐ C. It is a special method that is automatically called when an object of a class is created.
 - ☐ D. It is always public.

Question ID : 9744432654

Q.19 With reference to computer arithmetic, when two numbers of n digits are added and the sum occupies $n + 1$ digits, we say that _____ has occurred.

- Ans**
- ☒ A. an overflow
 - ☐ B. an error
 - ☐ C. an underflow
 - ☐ D. a bias

Question ID : 9744432659

Q.20 In clocked sequential circuits, the transition from present state to next state is activated by the presence of _____.

- Ans**
- ☐ A. an inverter signal
 - ☒ B. a clock signal
 - ☐ C. a binary signal
 - ☐ D. a Boolean signal

Question ID : 9744432651

Section : Discipline 3

Q.1 Which of the following memory access methods in a computer system involves referring to any location that can be selected at random and directly addressed and accessed?

- Ans**
- ☐ A. Dynamic access
 - ☐ B. Static access
 - ☒ C. Random access
 - ☐ D. Sequential access

Question ID : 9744432673

Q.2 Which of the following options best describes the truthfulness of the given statements with reference to Interrupt Initiated I/O?

- (i) When the interface determines that the device is ready for data transfer, it generates an interrupt request to the computer.
- (ii) Interrupt Initiated I/O is slower when compared to Programmed I/O.

- Ans**
- ☐ A. (i)-false, (ii)-false
 - ☐ B. (i)-true, (ii)-true
 - ☒ C. (i)-true, (ii)-false
 - ☐ D. (i)-false, (ii)-true

Question ID : 9744432663

Q.3 Which of the following algorithms refers to displacement addressing mode?

- Ans
- ☒ A. $EA = A + (R)$
 - ☐ B. $EA = (R)$
 - ☐ C. $Operand = A$
 - ☐ D. $EA = (A)$

Question ID : 9744432682

Q.4 The processing required for a single instruction execution by CPU is called _____.

- Ans
- ☐ A. an I/O cycle
 - ☒ B. an instruction cycle
 - ☐ C. a memory cycle
 - ☐ D. a clock cycle

Question ID : 9744432669

Q.5 Which of the following elements of a machine instruction specifies the operation to be performed?

- Ans
- ☐ A. Next instruction reference
 - ☒ B. Operation code
 - ☐ C. Source operand reference
 - ☐ D. Result operand reference

Question ID : 9744432680

Q.6 The CPU exchanges data with memory. For this purpose, which of the following registers specifies the address in memory for the next read or write?

- Ans
- ☐ A. Instruction register
 - ☐ B. Memory buffer register
 - ☒ C. Memory address register
 - ☐ D. Program counter

Question ID : 9744432667

Q.7 Which of the following type of operating systems refers to the idea of keeping the processor as busy as possible, by executing multiple programs simultaneously, that are loaded into memory, and the processor switches rapidly among them?

- Ans
- ☐ A. Uni-programming
 - ☐ B. Batch system
 - ☐ C. Multiprocessing
 - ☒ D. Multiprogramming



Q.8 In simple batch system, which of the following components will look after the sequentially submitted batch of jobs on cards or tape to be processed by the CPU?

- Ans**
- ☐ A. Device driver
 - ☐ B. Editor
 - ☒ C. Monitor
 - ☐ D. Dispatcher

Question ID : 9744432678

Q.9 With reference to Operating System overview, which of the following defines the repertoire of machine language instructions that a computer can follow?

- Ans**
- ☐ A. Application binary interface (ABI)
 - ☐ B. Execution hardware
 - ☒ C. Instruction set architecture (ISA)
 - ☐ D. Application programming interface (API)

Question ID : 9744432676

Q.10 The manipulation of binary information in a CPU is done by logic circuits called _____.

- Ans**
- ☒ A. gates
 - ☐ B. registers
 - ☐ C. flip-flop
 - ☐ D. bus

Question ID : 9744432666

Q.11 Which component transfers data from external devices to CPU and memory, and vice versa and, it contains internal buffers for temporarily holding this data until it can be sent on?

- Ans**
- ☐ A. Clock module
 - ☐ B. Memory module
 - ☒ C. I/O module
 - ☐ D. System bus

Question ID : 9744432670

Q.12 Which of the following refers to services like editors, debuggers that assist the programmers in creating programs and are not actually part of the operating system but are accessible through the operating system?

- Ans**
- ☐ A. Application program interface
 - ☐ B. Accounting
 - ☒ C. Utilities
 - ☐ D. System access

Question ID : 9744432674  Teachingninja.in

Q.13 What is the number of addressable units in a computer system, if memory addressing is at the byte level, and length of address bits is A?

- Ans**
- ☒ A. 2^A
 - ☐ B. $2 * A$
 - ☐ C. $2 + A$
 - ☐ D. $2 - A$

Question ID : 9744432671

Q.14 Which of the following are the three forms of memory typically, volatile and use semiconductor technology?

- Ans**
- ☐ A. Auxiliary memory, Secondary memory, Registers
 - ☐ B. Secondary memory, ROM, Cache memory
 - ☐ C. Main memory, Secondary memory, Registers
 - ☒ D. Registers, Main memory, Cache memory

Question ID : 9744432674

Q.15 Match the columns.

LIST-I	LIST-II
(a) Performance	(1) Magnetic
(b) Access method	(2) Transfer rate
(c) Physical type	(3) Direct

- Ans**
- ☐ A. (a)-(3), (b)-(2), (c)-(1)
 - ☒ B. (a)-(2), (b)-(3), (c)-(1)
 - ☐ C. (a)-(1), (b)-(3), (c)-(2)
 - ☐ D. (a)-(2), (b)-(1), (c)-(3)

Question ID : 9744432672

Q.16 During Programmed I/O data transfer, which of the following registers is checked to determine if a byte has been placed in the data register by the I/O device?

- Ans**
- ☐ A. Address register
 - ☒ B. Status register
 - ☐ C. I/O register
 - ☐ D. Instruction registers

Question ID : 9744432664

Q.17 Machine instructions that involve movement of data in or out of registers and or memory locations belongs to which of the following categories?

- Ans**
- ☒ A. Data movement
 - ☐ B. Data storage
 - ☐ C. Control
 - ☐ D. Data processing

Question ID : 9744432681

Q.18 Which of the following type of operating systems allows multiple users to simultaneously access the system through terminals, with the operating systems interleaving the execution of each user program in a short burst or quantum of computation?

- Ans**
- ☐ A. Uni-processing
 - ☒ B. Time sharing
 - ☐ C. Single tasking
 - ☐ D. Batch systems

Question ID : 9744432679

Q.19 I/O buffer register is used for which of the following purposes while CPU exchanges data with memory?

- Ans**
- ☐ A. To store instructions fetched from memory.
 - ☐ B. To store the address of memory for the next read or write.
 - ☒ C. To store data exchanged between an I/O module and the CPU.
 - ☐ D. To store the data to be written into memory or data read from memory.

Question ID : 9744432668

Q.20 Which of the following is a system that establishes a priority over various sources to determine which condition is to be serviced first when two or more requests arrive simultaneously from various I/O devices for data transfer?

- Ans**
- ☒ A. Priority interrupt
 - ☐ B. Mode of transfer
 - ☐ C. Parallel transfer
 - ☐ D. Serial transfer

Question ID : 9744432665

Q.1 Which of the following in assembly language is entered into the operation code for each assemble program instruction to specify a shortened "opcode" that represents a larger, complete set of codes?

- Ans
- ☒ A. Mnemonic
 - ☐ B. Directive
 - ☐ C. Label
 - ☐ D. Macro

Question ID : 9744432684

Q.2 Which of the following information is NOT included in Process Control Block (PCB)?

- Ans
- ☒ A. Network interface information
 - ☐ B. CPU-scheduling information
 - ☐ C. Process state
 - ☐ D. CPU registers

Question ID : 9744432691

Q.3 An address generated by the CPU is commonly referred to as a _____.

- Ans
- ☐ A. physical address
 - ☐ B. fixed address
 - ☐ C. static address
 - ☒ D. logical address

Question ID : 9744432694

Q.4 Which of the following is the assembly language instruction for 'Jump to new program location'?

- Ans
- ☒ A. JMP (Address)
 - ☐ B. BRA (Offset)
 - ☐ C. JSR (Address)
 - ☐ D. BNE (Offset)

Question ID : 9744432686

Q.5 Which of the following languages is a low-level programming language that is intended to directly communicate with a computer's hardware and to be readable by humans?

- Ans
- ☒ A. Assembly
 - ☐ B. Symbolic
 - ☐ C. Binary
 - ☐ D. Hexadecimal

Question ID : 9744432683

Q.6 Consider the following segment table.

Segment	Base	Length
0	219	600
1	2300	14
2	90	100
3	1327	580
4	1952	96

What are the physical addresses for the following logical addresses 1, 12 and 2, 101?

- Ans
- ☐ A. Trap; 191
 - ☐ B. 2312; 191
 - ☐ C. Trap; trap
 - ☒ D. 2312; trap

Question ID : 9744432697

Q.7 Which of the following is NOT a device management task in an operating system?

- Ans
- ☐ A. Installing device and component-level drivers and related software.
 - ☐ B. Configuring a device.
 - ☒ C. Managing primary memory.
 - ☐ D. Implementing device security measures and processes.

Question ID : 9744432699

Q.8 Which of the following processes generates I/O requests infrequently, using most of its time doing computations?

- Ans
- ☒ A. CPU bound
 - ☐ B. System bound
 - ☐ C. Memory bound
 - ☐ D. I/O bound

Question ID : 9744432690

Q.9 Which of the following type of system resource enables a device to transfer data without overloading the CPU?

- Ans
- ☐ A. Memory addresses
 - ☒ B. DMA channel
 - ☐ C. I/O addresses
 - ☐ D. Interrupt request numbers

Question ID : 9744432701

Q.10 The user process is 100 MB in size and the backing store is a standard hard disk with a transfer rate of 50 MB per second. The swap time is 200 milliseconds. What is the total swap time (ignoring other disk performance aspects)?

- Ans**
- ☒ A. 4000 milliseconds
 - ☐ B. 2000 milliseconds
 - ☐ C. 2 seconds
 - ☐ D. 200 milliseconds

Question ID : 9744432695

Q.11 Which of the following statements with reference to serial and parallel devices is FALSE?

- Ans**
- ☒ A. The installation and troubleshooting are difficult in parallel transmission system due to its placement in a single physical cable.
 - ☐ B. In Parallel Transmission, various bits are sent together simultaneously with a single clock pulse.
 - ☐ C. Parallel Transmission uses a 25-pin port having 17 signal lines and 8 ground lines.
 - ☐ D. Serial Transmission has two subclasses synchronous and asynchronous.

Question ID : 9744432700

Q.12 What is the BCD equivalent of decimal number 20?

- Ans**
- ☒ A. 0010 0000
 - ☐ B. 0001 0000
 - ☐ C. 0101 0000
 - ☐ D. 1001 1001

Question ID : 9744432688

Q.13 Which of the following is an extra bit included with a binary message to make the total number of 1's either odd or even and used in most common error detection code?

- Ans**
- ☐ A. Status bit
 - ☐ B. Dirty bit
 - ☐ C. Flag bit
 - ☒ D. Parity bit

Question ID : 9744432689

Q.14 With reference to device management, to maintain high availability of its stored data, the Scale Out State Server uses the concept _____.

- Ans**
- ☐ A. buffers
 - ☒ B. replicas
 - ☐ C. heaps
 - ☐ D. structures

Q.15 What is the meaning of assembly language instruction 'LDA (Address)'?

- Ans
- ☐ A. Store accumulator to memory
 - ☒ B. Load accumulator with memory
 - ☐ C. Store stack pointer to memory
 - ☐ D. Load accumulator from constant

Question ID : 9744432685

Q.16 In a Linux Operating System, a new process is created by the _____ system call, and a new program is run after a call to _____.

- Ans
- ☐ A. exec(); fork()
 - ☒ B. fork(); exec()
 - ☐ C. run(); generate()
 - ☐ D. generate(); run()

Question ID : 9744432692

Q.17 What is the decimal equivalent of hexadecimal F3?

- Ans
- ☐ A. 342
 - ☒ B. 243
 - ☐ C. 324
 - ☐ D. 432

Question ID : 9744432687

Q.18 Which of the following modules is involved in CPU scheduling that gives control of the CPU to the process selected by the short-term scheduler?

- Ans
- ☐ A. Loader
 - ☐ B. Compiler
 - ☒ C. Dispatcher
 - ☐ D. Linker

Question ID : 9744432698

Q.19 Which scheduler controls the degree of multiprogramming i.e., the number of processes in memory?

- Ans
- ☐ A. Disk
 - ☐ B. Short-term
 - ☒ C. Long-term
 - ☐ D. CPU

Question ID : 9744432693

Q.20 Which of the following dynamic allocation methods suffers from external fragmentation?

- Ans
- ☐ A. Only first fit
 - ☒ B. First fit and best fit
 - ☐ C. Only best fit
 - ☐ D. Worst fit and best fit

Question ID : 9744432696

Section : Discipline 5

Q.1 To which of the following categories does the given instruction belong?

LOAD A AC ← M[A]

- Ans
- ☐ A. Three-Address Instructions
 - ☒ B. One-Address Instructions
 - ☐ C. Zero-Address Instructions
 - ☐ D. Two-Address Instructions

Question ID : 9744432716

Q.2 Which field of instruction is used to locate the operands needed for an operation?

- Ans
- ☐ A. Address
 - ☐ B. Opcode
 - ☒ C. Mode
 - ☐ D. Type

Question ID : 9744432717

Q.3 With reference to process synchronisation, which of the following processes refers to one that can affect or be affected by other processes running in the system?

- Ans
- ☐ A. Non-scheduled
 - ☐ B. Scheduled
 - ☒ C. Cooperative
 - ☐ D. Non-cooperative

Question ID : 9744432706

Q.4 Which of the following refers to a situation where several processes access and manipulate the same data concurrently, and the outcome of the execution depends on the order in which the access takes place?

- Ans**
- ☒ A. Race condition
 - ☐ B. Concurrency
 - ☐ C. Parallelism
 - ☐ D. Scheduling

Question ID : 9744432707

Q.5 Which of the following mechanisms are provided by windows for thread synchronisation outside the kernel?

- Ans**
- ☐ A. Adaptive mutex
 - ☐ B. Kernel pre-emption
 - ☒ C. Dispatcher objects
 - ☐ D. Events

Question ID : 9744432710

Q.6 Which of the following is NOT a requirement of solution to critical section problems in an operating system?

- Ans**
- ☒ A. Hold and wait
 - ☐ B. Mutual exclusion
 - ☐ C. Progress
 - ☐ D. Bounded waiting

Question ID : 9744432708

Q.7 Each volume that contains a file system in the operating system must also contain information about the files in the system. This information are stored in the ____.

- Ans**
- ☐ A. memory directory
 - ☐ B. system directory
 - ☐ C. network directory
 - ☒ D. device directory

Question ID : 9744432711

Q.8 In which of the following addressing modes is the content of an index register added to the address part of the instruction to obtain an effective address?

- Ans**
- ☐ A. Indirect
 - ☐ B. Base register
 - ☐ C. Relative
 - ☒ D. Indexed

Question ID : 9744432718

Q.9 During CPU scheduling, processes alternate between two states where process execution begins with _____ and is followed by _____.

- Ans**
- ☒ A. an I/O burst, a CPU burst
 - ☒ B. a memory burst, an I/O burst
 - ☒ C. a CPU burst, an I/O burst
 - ☒ D. an I/O burst, a memory burst

Question ID : 9744432705

Q.10 If a priority queue of n elements is represented in an unordered linear list, a deletion from the queue requires _____ time.

- Ans**
- ☒ A. $\theta(n)$
 - ☒ B. $\theta(n^2)$
 - ☒ C. $O(n \log n)$
 - ☒ D. $O(n^2/2)$

Question ID : 9744432722

Q.11 When a process switches from the running state to the waiting state or when a process terminates, the resulting scheduling scheme is called _____.

- Ans**
- ☒ A. synchronous
 - ☒ B. asynchronous
 - ☒ C. nonprimitive
 - ☒ D. pre-emptive

Question ID : 9744432704

Q.12 Which of the following specifies the micro-operation to be executed by a Control Unit?

- Ans**
- ☒ A. Control word
 - ☒ B. Memory word
 - ☒ C. Register stack
 - ☒ D. Sequential inputs

Question ID : 9744432715

Q.13 Which type of path name begins at the root and follows a path down to the specified file, giving the directory names on the path?

- Ans**
- ☒ A. Full
 - ☒ B. Relative
 - ☒ C. Partial
 - ☒ D. Absolute

Question ID : 9744432715  Teachingninja.in

Q.14 Which of the following data types in Visual Basic 6.0 Store integer values is in the range of -2, 147, 483, 468 to +2, 147, 483, 468?

- Ans
- ☐ A. Currency
 - ☒ B. Long
 - ☐ C. Single
 - ☐ D. Byte

Question ID : 9744432719

Q.15 Which of the following in an operating system refers to batch file that commands the command interpreter?

- Ans
- ☐ A. rar
 - ☐ B. lib
 - ☒ C. sh
 - ☐ D. obj

Question ID : 9744432712

Q.16 The smallest integer m in m-colorability optimisation problem for which graph G can be coloured is referred to as:

- Ans
- ☐ A. optimal number
 - ☐ B. minimum number
 - ☒ C. chromatic number
 - ☐ D. colorability number

Question ID : 9744432721

Q.17 Which of the following situations does not affect the CPU scheduling decision?

- Ans
- ☐ A. When a process terminates.
 - ☐ B. When a process switches from the running state to the waiting state.
 - ☒ C. When a process is in execution state.
 - ☐ D. When a process switches from the running state to the ready state.

Question ID : 9744432703

Q.18 In stack organisation of a CPU, the register that holds the address of stack is referred to as _____.

- Ans
- ☒ A. stack pointer
 - ☐ B. stack register
 - ☐ C. memory register
 - ☐ D. memory pointer

Question ID : 9744432703  Teachingninja.in

Q.19 Which of the following is a global property of controls in Visual Basic 6.0?

- Ans
- ☒ A. Checked
 - ☒ B. Name
 - ☒ C. Unchecked
 - ☒ D. Grayed

Question ID : 9744432720

Q.20 Which of the following synchronisation methods uses an integer variable that, apart from initialisation, is accessed only through two standard atomic operations: wait () and signal ()?

- Ans
- ☒ A. Scheduling
 - ☒ B. Semaphore
 - ☒ C. Concurrency
 - ☒ D. Mutex

Question ID : 9744432709

Section : Discipline 6

Q.1 With reference to Artificial Intelligence, which machine learning algorithm is trained on labelled data?

- Ans
- ☒ A. Unsupervised
 - ☒ B. Supervised
 - ☒ C. Enforcement
 - ☒ D. Reinforcement

Question ID : 9744432728

Q.2 Which of the following is commonly referred to as IEEE 802.3 standard of wired LAN?

- Ans
- ☒ A. Ethernet
 - ☒ B. Virtual LAN
 - ☒ C. Port
 - ☒ D. Wi-fi

Question ID : 9744432731

Q.3 Which components of an Expert System enables to draw deductions from the rules in the knowledge base?

- Ans
- ☒ A. Inference engine
 - ☒ B. Environment
 - ☒ C. Agent
 - ☒ D. Rule finder

Question ID : 97444

Q.4 In which of the following Data Link Layer Protocols does the sender send one frame and then waits for an acknowledgement before proceeding?

- Ans
- ☐ A. Go-back n ARQ
 - ☐ B. Sliding window
 - ☐ C. Sliding window ARQ
 - ☒ D. Stop-and-wait

Question ID : 9744432734

Q.5 Which of the following modes of communication is supported by Wi-Fi technology?

- Ans
- ☒ A. Half-duplex
 - ☐ B. Simplex fibre optic
 - ☐ C. Full-duplex
 - ☐ D. Simplex

Question ID : 9744432733

Q.6 Which of the following is the bit string transmitted if bit stream to be transmitted is 10011101 and generator polynomial is $x^3 + 1$, using CRC method?

- Ans
- ☐ A. 10011101111
 - ☐ B. 10011101101
 - ☒ C. 10011101100
 - ☐ D. 10011101110

Question ID : 9744432732

Q.7 Which of the following is NOT a role of database administrator?

- Ans
- ☐ A. Security and authorisation
 - ☒ B. Database access package development
 - ☐ C. Design of the conceptual and physical schemas
 - ☐ D. Data availability and recovery from failures

Question ID : 9744432738

Q.8 If for a relation schema R, the domains of all attributes of R are atomic, then R is said to be in which normal form?

- Ans
- ☐ A. Second normal form
 - ☐ B. Third normal form
 - ☒ C. First normal form
 - ☐ D. Boyce-Codd normal form

Question ID : 97444

Q.9 Which of the following tiers of database architecture separates its tiers from each other based on the complexity of the users and how they use the data present in the database?

- Ans
- ☐ A. n-tier
 - ☐ B. 2-tier
 - ☐ C. 1-tier
 - ☒ D. 3-tier

Question ID : 9744432739

Q.10 In which of the following Artificial Intelligence applications does a machine analyse and understand language and speeches as it is spoken?

- Ans
- ☐ A. Fuzzy logic
 - ☐ B. Genetic algorithms
 - ☒ C. Natural language processing
 - ☐ D. Soft computing

Question ID : 9744432729

Q.11 With reference to Problem Reduction in Artificial Intelligence, which of the following structures is used to decompose the problem into a smaller set of problems all of which must be solved then?

- Ans
- ☐ A. Stack
 - ☐ B. Queue
 - ☒ C. AND-OR graph
 - ☐ D. Heap

Question ID : 9744432730

Q.12 The max clique problem that must determine the size of the largest clique in graph G is _____.

- Ans
- ☐ A. a non-linear problem
 - ☒ B. an optimisation problem
 - ☐ C. a decision problem
 - ☐ D. a linear problem

Question ID : 9744432723

Q.13 The time complexity of Strassen's matrix multiplication problem is:

- Ans
- ☐ A. $O(n^{8.21})$
 - ☐ B. $O(2^{n/2})$
 - ☐ C. $O(S^n)$
 - ☒ D. $O(n^{2.81})$

Question ID : 97444



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Q.14 Which of the following components of Artificial Intelligence refers to systematic search through a range of actions to reach some predefined goal or solution?

- Ans**
- ☒ A. Problem solving
 - ☐ B. Learning
 - ☐ C. Perception
 - ☐ D. Reasoning

Question ID : 9744432726

Q.15 Which of the following application layer protocols is used to provide bidirectional interactive text-oriented communication over internet or LAN?

- Ans**
- ☐ A. SMTP
 - ☐ B. DNS
 - ☐ C. FTP
 - ☒ D. Telnet

Question ID : 9744432735

Q.16 A relation schema specifies the domain of each field or column in the relation instance and each instance of the relation must satisfy it, that is referred to as ____.

- Ans**
- ☒ A. domain constraints
 - ☐ B. referential integrity constraints
 - ☐ C. key constraints
 - ☐ D. entity integrity constraints

Question ID : 9744432741

Q.17 Which of the following properties of transaction of Relational database Management System defines the rules for maintaining database in a correct state after a transaction?

- Ans**
- ☒ A. Consistency
 - ☐ B. Durability
 - ☐ C. Atomicity
 - ☐ D. Isolation

Question ID : 9744432740

Q.18 Which of the following is NOT an advantage of DBMS?

- Ans**
- ☐ A. Data independence
 - ☐ B. Data administration
 - ☐ C. Efficient data access
 - ☒ D. Network connectivity

Question ID : 9744432740  Teachingninja.in

Q.19 Which of the following is an algorithmic design, where the solution to the problem can be viewed as the result of sequence of decisions?

- Ans**
- ☒ A. Dynamic programming
 - ☐ B. Divide and conquer
 - ☐ C. Greedy method
 - ☐ D. Branch and bound

Question ID : 9744432725

Q.20 Which of the following database users develops packages that facilitate data access for end users?

- Ans**
- ☐ A. Database administrator
 - ☒ B. Database application programmers
 - ☐ C. Database vendors
 - ☐ D. Database implementers

Question ID : 9744432737

Section : Discipline 7

Q.1 Which of the following is a computer programming model that organises software design around data, or objects, rather than functions and logics?

- Ans**
- ☒ A. Object-oriented
 - ☐ B. Scripting
 - ☐ C. Declarative
 - ☐ D. Rule-based

Question ID : 9744432748

Q.2 What is the expected output of the given SQL statements on relations borrower and depositor?
"select distinct cust-name from borrower where cust-name not in (select cust-name from depositor)" from relations borrower and depositor".

- Ans**
- ☒ A.
All customers who have a loan at the bank, but do not have an account at the bank.
 - ☐ B.
All customers who do not have a loan at the bank, but have an account at the bank.
 - ☐ C.
All customers who have a loan at the bank and have an account at the bank.
 - ☐ D.
All customers who do not have a loan at the bank and do not have an account at the bank.

Question ID : 9744432753

Q.3 Traffic padding mechanism in information security refers to _____.

- Ans
- ☐ A. assuring the integrity of a data unit or stream of data units
 - ☐ B. ensuring the identity of an entity by means of information exchange
 - ☐ C. enforcing access rights to resources
 - ☒ D. inserting bits into gaps in a data stream to frustrate traffic analysis attempt

Question ID : 9744432757

Q.4 The use of mathematical algorithms to transform data into a form that is NOT readily intelligible belongs to which of the following security mechanism?

- Ans
- ☐ A. Notarisation
 - ☐ B. Routing control
 - ☐ C. Digital signature
 - ☒ D. Encipherment

Question ID : 9744432758

Q.5 Which of the following statements with reference to constructors in Object Oriented Programming is FALSE?

- Ans
- ☒ A. Constructors return a value.
 - ☐ B. Constructor is a special function that helps you instantiate an object of a class.
 - ☐ C. Whenever you instantiate an object, a default constructor method is called.
 - ☐ D. Default constructors do not take any parameters.

Question ID : 9744432749

Q.6 Which of the following encryption ciphers treats digrams in the plaintext as single units and translates these units into ciphertext digrams?

- Ans
- ☐ A. Hill cipher
 - ☐ B. Monoalphabetic
 - ☒ C. Playfair
 - ☐ D. Ceaser

Question ID : 9744432761

Q.7 Which of the following statements with reference to Bezier curves in three-dimensional graphics is FALSE?

- Ans
- ☒ A. Bezier curve always passes through middle control points.
 - ☐ B. We can fit a Bezier curve to any number of control points .
 - ☐ C. Bezier curve lies within the convex hull of control points .
 - ☐ D. Closed Bezier curves are generated by specifying first and last control points at the same position.

Question ID : 9744432745

Q.8 Terminating and undoing all the actions carried out so far in DBMS transactions is known as _____.

- Ans
- ☒ A. Abort
 - ☐ B. Writing
 - ☐ C. Commit
 - ☐ D. Reading

Question ID : 9744432754

Q.9 Protection of transmitted data from passive attacks and protection of traffic flow from analysis refers to which of the following?

- Ans
- ☐ A. Nonrepudiation
 - ☐ B. Data integrity
 - ☒ C. Data confidentiality
 - ☐ D. Access control

Question ID : 9744432759

Q.10 The first step in Object-Oriented Programming is to collect all the objects a programmer wants to manipulate and identify how they relate to each other. This is referred to as _____.

- Ans
- ☐ A. data processing
 - ☒ B. data modelling
 - ☐ C. data wrangling
 - ☐ D. data cleaning

Question ID : 9744432751

Q.11 Which of the following is a set of permitted values for an attribute of a relation in databases?

- Ans
- ☐ A. Entity
 - ☐ B. Relationship set
 - ☐ C. Derived
 - ☒ D. Domain

Question ID : 9744432751



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Q.12 Which of the following terms refers to the maximum number of points that can be displayed without overlap on a CRT?

- Ans
- ☐ A. Aspect ratio
 - ☐ B. Retrace
 - ☒ C. Resolution
 - ☐ D. Persistence

Question ID : 9744432743

Q.13 The area filling approach which starts at a point inside a region and paints the interior outward towards the boundary is called _____.

- Ans
- ☐ A. flood-filling
 - ☐ B. fill area
 - ☒ C. boundary filling algorithm
 - ☐ D. scan-line fill

Question ID : 9744432744

Q.14 Which of the following projection techniques is used in engineering and architectural drawings to represent the objects with a set of views that maintain relative proportions of the objects?

- Ans
- ☐ A. Scaling
 - ☐ B. Rotation
 - ☐ C. Perspective projection
 - ☒ D. Parallel projection

Question ID : 9744432746

Q.15 Which of the following languages is NOT an Object-Oriented Programming language?

- Ans
- ☐ A. Java
 - ☒ B. Ada
 - ☐ C. Emerald
 - ☐ D. Ruby

Question ID : 9744432750

Q.16 Which of the following is a passive information security attack?

- Ans
- ☐ A. Modification of messages
 - ☐ B. Masquerade
 - ☐ C. Denial of service
 - ☒ D. Release of message content

Question ID : 9744432755

Q.17 With reference to computer graphics, the translation distance pair (tx, ty) that is added to the original coordinate position (x, y) to move to a new position (x1, y1) is called _____.

- Ans**
- ☐ A. rotation point
 - ☐ B. scaling factor
 - ☐ C. pivot point
 - ☒ D. shift vector

Question ID : 9744432747

Q.18 Which of the following ciphers processes the input elements continuously and producing output one element at a time, as it goes along?

- Ans**
- ☐ A. Block
 - ☐ B. Byte
 - ☐ C. Page
 - ☒ D. Stream

Question ID : 9744432762

Q.19 Which of the following data confidentiality security services refers to the protection of all user data in a single data block?

- Ans**
- ☐ A. Connection confidentiality
 - ☐ B. Selective-field confidentiality
 - ☒ C. Connectionless confidentiality
 - ☐ D. Traffic flow confidentiality

Question ID : 9744432756

Q.20 Which of the following is referred to as public-key encryption?

- Ans**
- ☐ A. Symmetric encryption
 - ☐ B. Secret-key encryption
 - ☒ C. Asymmetric encryption
 - ☐ D. Single-key encryption

Question ID : 9744432760

Q.1 Which of the following data reduction methods searches for k n-dimensional orthogonal vectors that can best be used to represent the data, where $k \leq n$?

- Ans
- ☐ A. Pixel-Oriented Visualisation
 - ☒ B. Principal Component Analysis
 - ☐ C. Data Normalisation
 - ☐ D. Data Discretisation

Question ID : 9744432774

Q.2 The analysis of data objects that do not comply with the general behaviour or model of the data is referred to as _____.

- Ans
- ☐ A. clustering
 - ☐ B. regression
 - ☐ C. evolution
 - ☒ D. outlier

Question ID : 9744432770

Q.3 The process of creating and embedding scripts in a web page is known as _____.

- Ans
- ☐ A. procedural language
 - ☐ B. machine language
 - ☐ C. assembly language
 - ☒ D. web scripting

Question ID : 9744432779

Q.4 HTML attributes are always specified in the _____ tag(s).

- Ans
- ☐ A. End
 - ☐ B. Closing
 - ☐ C. Top
 - ☒ D. Start

Question ID : 9744432782

Q.5 One approach E-commerce comes from 5-C-model, according to Zwass. It defines E-Commerce by five activity domains Commerce, Collaboration, Communication, Connection, and _____.

- Ans
- ☐ A. Collection
 - ☒ B. Computation
 - ☐ C. Capacity
 - ☐ D. Capable

Question ID : 9744432768



Q.6 Which of the following options best describes the truthfulness of the given statements with reference to destructors?

(i) Destructors are the last member function called for an object and they are called by the compiler itself.

(ii) A destructor can be declared in any section of the class.

- Ans**
- ☒ A. (i)-true, (ii)-false
 - ☒ B. (i)-false, (ii)-false
 - ☒ C. (i)-true, (ii)-true
 - ☒ D. (ii)-false, (i)-true

Question ID : 9744432778

Q.7 Which of the following analysis manager uses to identify business opportunities, including those that can be exploited using electronic commerce?

- Ans**
- ☒ A. SWOT (Strengths, Weaknesses, Opportunities, and Threats)
 - ☒ B. Product roadmaps
 - ☒ C. Business Process Modelling
 - ☒ D. SMART (Specific, Measurable, Achievable, Realistic, and Timely)

Question ID : 9744432769

Q.8 With reference to data mining, which of the following is a flowchart-like tree structure, where each node denotes a test on an attribute value, each branch represents an outcome of the test, and tree leaves represent classes or class distributions?

- Ans**
- ☒ A. Graph
 - ☒ B. Queue
 - ☒ C. Stack
 - ☒ D. Decision tree

Question ID : 9744432771

Q.9 Which of the following JPEG modes supports no loss in the image quality?

- Ans**
- ☒ A. Sequential mode
 - ☒ B. Lossless mode
 - ☒ C. Progressive mode
 - ☒ D. Spectral mode

Question ID : 9744432766

Q.10 Which of the following is an attribute with possible values that have a meaningful order or ranking among them, but the magnitude between successive values that can be mined is not known?

- Ans
- ☐ A. Binary
 - ☐ B. Ratio-scaled
 - ☒ C. Ordinal
 - ☐ D. Interval-scaled

Question ID : 9744432773

Q.11 What will be the output of the following C++ program?

```
#include <iostream>
using namespace std;
class Wall {
private:
double length;
public:

Wall() {
length = 5.5;
cout << "Creating a wall." << endl;
cout << "Length = " << length << endl;
}
};

int main() {
Wall wall1;
return 0;
}
```

- Ans
- ☐ A. Length = 5.5
 - ☒ B. Creating a wall Length = 5.5
 - ☐ C. Creating a wall
 - ☐ D. Compile time error

Question ID : 9744432777

Q.12 Which of the following statements with reference to HTML is FALSE?

- Ans
- ☐ A. HTML elements tell the browser how to display the content.
 - ☐ B. HTML consists of a series of elements.
 - ☒ C. HTML describes the meaning of a Web page.
 - ☐ D. HTML stands for Hyper Text Markup Language.

Question ID : 97444



Q.13 With reference to multimedia authoring tools, which of the following is a rendering package for creating complex surface appearances and images created by Pixar?

- Ans**
- ☐ A. softImage XSI
 - ☐ B. Maya
 - ☐ C. 3D studio Max
 - ☒ D. Renderman

Question ID : 9744432765

Q.14 Which of the following statements with reference to constructor and destructor in C++ is FALSE?

- Ans**
- ☒ A.
The destructor can have parameters, but the constructor does not receive any parameters.
 - ☐ B.
A constructor is called by the compiler whenever the object of the class is created.
 - ☐ C.
Both constructor and destructor can be defined as public, private, or protected.
 - ☐ D.
A destructor is called by the compiler when the object is destroyed.

Question ID : 9744432776

Q.15 A data set may contain objects that do not comply with the general behaviour or model of the data. Analysis of these data objects is referred to as _____.

- Ans**
- ☐ A. classification
 - ☒ B. outlier
 - ☐ C. clustering
 - ☐ D. regression

Question ID : 9744432772

Q.16 What is the full form of ASP with reference to ASP.NET?

- Ans**
- ☐ A. Asynchronous Server Pages
 - ☐ B. Attentive Server Pages
 - ☒ C. Active Server Pages
 - ☐ D. Active Synchronous Pages

Question ID : 9744432781

Q.17 Which of the following multimedia authoring metaphors uses a special language to enable interactivity and allows conditions, jumps, loop, functions, or macros, etc?

- Ans**
- ☐ A. Hierarchical metaphor
 - ☐ B. Frames metaphor
 - ☒ C. Scripting language metaphor
 - ☐ D. Card/scripting metaphor

Question ID : 9744432764

Q.18 With reference to Data Encryption Standard (DES), the size of the plaintext is _____ bits and the key is _____ bits in length.

- Ans**
- ☐ A. 56; 64
 - ☐ B. 48; 56
 - ☐ C. 56; 48
 - ☒ D. 64; 56

Question ID : 9744432763

Q.19 Which of the following type of constructors is used to initialise data members with the values provided by the user in C++?

- Ans**
- ☐ A. Copy constructor
 - ☒ B. Parameterised constructor
 - ☐ C. Default constructor
 - ☐ D. Static constructor

Question ID : 9744432775

Q.20 JPEG (image compression standard) stands for _____.

- Ans**
- ☐ A. Joint Photographic External Group
 - ☒ B. Joint Photographic Experts Group
 - ☐ C. Joint Photosynthesis Explicit Group
 - ☐ D. Joint Photosynthesis External Group

Question ID : 9744432767

Q.1 Which of the following is a paradigm where entities (objects, services, and so on) communicate indirectly by sending messages to one another through an intermediary?

- Ans**
- ☒ A. Event-driven programming
 - ☐ B. Structured programming
 - ☐ C. Declarative programming
 - ☐ D. Imperative programming

Question ID : 9744432788

Q.2 One very useful way modules can interact is through _____.

- Ans**
- ☐ A. tags
 - ☐ B. declaration
 - ☐ C. control
 - ☒ D. interface

Question ID : 9744432786

Q.3 Which of the following options best describes the truthfulness of given statements with reference to modular programming?

- (i) Other names for module are function, macro, sub-routine.
- (ii) Two main categories modules are program control, specific task.

- Ans**
- ☐ A. (i)-false, (ii)-false
 - ☒ B. (i)-true, (ii)-true
 - ☐ C. (i)-false, (ii)-true
 - ☐ D. (i)-true, (ii)-false

Question ID : 9744432783

Q.4 With reference to event driven programming, when an event fails to be processed even after several retries, it is then posted to _____.

- Ans**
- ☒ A. dead letter queue
 - ☐ B. message heap
 - ☐ C. dead node
 - ☐ D. message queue

Question ID : 9744432790

Q.5 Models having the concept of event-driven programming are called _____.

- Ans
- ☒ A. asynchronous
 - ☐ B. parallel
 - ☐ C. continuous
 - ☐ D. synchronous

Question ID : 9744432787

Q.6 Which of the following refers to the process of using a model to study the performance of a system?

- Ans
- ☐ A. Emulator
 - ☐ B. Modelling
 - ☐ C. Research
 - ☒ D. Simulation

Question ID : 9744432802

Q.7 What is the full form of the multimedia image file format TIFF?

- Ans
- ☒ A. Tagged Image File Format
 - ☐ B. Tagged Imperative File Format
 - ☐ C. Target Image File Format
 - ☐ D. Tagged Image Film Format

Question ID : 9744432794

Q.8 In a distributed computing environment, multiple computers can provide the same services. This way, if one machine is not available, others can fill in for the service. What is the advantage of this?

- Ans
- ☐ A. Performance
 - ☐ B. Efficiency
 - ☐ C. Scalability
 - ☒ D. Resilience and redundancy

Question ID : 9744432801

Q.9 Which of the following is the major system standard graphics file format for Microsoft Windows, used in Microsoft Paint and other programs?

- Ans
- ☐ A. FLC
 - ☐ B. PICT
 - ☒ C. BMP
 - ☐ D. PAINT

Question ID : 9744432795

Q.10 Which of the following is a general term used for anything that involves delivering hosted services over the internet which is similar to distributing computing?

- Ans**
- ☒ A. Parallel computing
 - ☒ B. Centralised computing
 - ☒ C. Cloud computing
 - ☒ D. Standalone computing

Question ID : 9744432800

Q.11 The multimedia image format, GIF standard is limited to _____ colour images.

- Ans**
- ☒ A. 48-bit
 - ☒ B. 32-bit
 - ☒ C. 16-bit
 - ☒ D. 8-bit

Question ID : 9744432792

Q.12 The ability to group some lines of code into a unit that can be included in program is called _____.

- Ans**
- ☒ A. parameter passing
 - ☒ B. modularisation
 - ☒ C. program control
 - ☒ D. localisation

Question ID : 9744432785

Q.13 Which of the following systems consists of multiple software components that are on multiple computers, but run as a single system?

- Ans**
- ☒ A. Parallel computer
 - ☒ B. Standalone computer
 - ☒ C. Centralised computer
 - ☒ D. Distributed computer

Question ID : 9744432799

Q.14 When the same event needs to be handled by multiple entities, which of the following methods is used in even-driven programming?

- Ans**
- ☒ A. Event splitting
 - ☒ B. Event disposing
 - ☒ C. Event merging
 - ☒ D. Event combining

Question ID : 9744432799  Teachingninja.in

Q.15 Which of the following terms refers to the frames that are added between the first and last frame to give the appearance of continuity in motion?

- Ans**
- ☐ A. Key
 - ☐ B. Cel
 - ☒ C. Tweening
 - ☐ D. Estimation

Question ID : 9744432798

Q.16 Which of the following multimedia image file formats allows the user to set a desired level of quality, or compression ratio?

- Ans**
- ☒ A. JPEG
 - ☐ B. GIF
 - ☐ C. TIFF
 - ☐ D. PNG

Question ID : 9744432793

Q.17 In modular programming, the data items passed (or communicated) are called _____.

- Ans**
- ☒ A. parameters
 - ☐ B. tags
 - ☐ C. points
 - ☐ D. elements

Question ID : 9744432784

Q.18 One second of a video is comprised of 24 or 30 frames which is referred to as _____.

- Ans**
- ☐ A. plots per second
 - ☐ B. blocks per second
 - ☐ C. images per second
 - ☒ D. frames per second

Question ID : 9744432797

Q.19 In event-driven programming, server and client programs interact with each other through _____.

- Ans**
- ☐ A. synchronous calls
 - ☐ B. message broker
 - ☒ C. message queues
 - ☐ D. declarative statements

Question ID : 9744432789

Q.20 Which of the following is a single image in a sequence of pictures?

- Ans
- ☐ A. Block
 - ☐ B. Plot
 - ☐ C. Reel
 - ☒ D. Frame

Question ID : 9744432796

Section : Discipline 10

Q.1 Modelling, a system as it progresses through time, for e.g. factory operations, traffic analysis is referred to as _____.

- Ans
- ☐ A. static simulation
 - ☒ B. discrete event simulation
 - ☐ C. dynamic simulation
 - ☐ D. process simulation

Question ID : 9744432803

Q.2 Which HTML attribute is used to define the URL of the image?

- Ans
- ☐ A. Alt
 - ☐ B. Border
 - ☒ C. Src
 - ☐ D. Align

Question ID : 9744432821

Q.3 Which of the following is the most popular CSS framework for developing responsive and mobile-first websites?

- Ans
- ☒ A. Bootstrap
 - ☐ B. AJAX
 - ☐ C. JSON
 - ☐ D. XML

Question ID : 9744432818

Q.4 In language model, which of the following refers to the patterns of speech or phonemes of a language and the rules for combining them?

- Ans**
- ☒ A. Phonology
 - ☐ B. Morphology
 - ☐ C. Pragmatics
 - ☐ D. Syntax

Question ID : 9744432812

Q.5 An approximation value of Π is given by $X_1 = 22/7 = 3.1428571$ and its true value $X = 3.1415926$. Find the absolute and relative errors, respectively.

- Ans**
- ☐ A. 3.1415926; 3.1428571
 - ☐ B. -0.000402; -0.0012645
 - ☐ C. 3.1428571; 3.1415926
 - ☒ D. -0.0012645; -0.000402

Question ID : 9744432807

Q.6 Which of the following refers to the IT technologies that power an organisation's enterprise, planning, customer management and storage systems?

- Ans**
- ☒ A. Business computing
 - ☐ B. E-governance
 - ☐ C. Database Management System
 - ☐ D. Cloud computing

Question ID : 9744432819

Q.7 Using HTML and CSS to automatically resize a website and making a website look good on all devices (desktops, tablets, and phones) is referred to as _____.

- Ans**
- ☐ A. resizing web design
 - ☐ B. communicative web design
 - ☐ C. tractable web design
 - ☒ D. responsive web design

Question ID : 9744432816

Q.8 In discrete event simulation, which of the following refers to the collection of state variables necessary to describe the system at a particular time?

- Ans**
- ☐ A. Event routine
 - ☐ B. Event list
 - ☐ C. Timing routine
 - ☒ D. System state

Question ID : 9744432807

Q.9 Which of the following is the discipline that investigates and describes the psychological processes that make it possible for humans to master and use language?

- Ans
- ☒ A. Psycholinguistics
 - ☐ B. Neurolinguistics
 - ☐ C. Research linguistics
 - ☐ D. Reduced linguistics

Question ID : 9744432811

Q.10 HTML tags are element names surrounded by _____.

- Ans
- ☐ A. square brackets
 - ☐ B. flower brackets
 - ☒ C. angle brackets
 - ☐ D. parenthesis

Question ID : 9744432820

Q.11 Which of the following errors is caused by replacing a tabulated function by means of an interpolating polynomial in numerical computation of derivatives?

- Ans
- ☐ A. Rounding
 - ☒ B. Truncation
 - ☐ C. Biased
 - ☐ D. Unbiased

Question ID : 9744432808

Q.12 Which of the following is a tool for site mapping and wireframing in web design?

- Ans
- ☐ A. MS-Access
 - ☐ B. Spreadsheet
 - ☒ C. Webflow
 - ☐ D. Open office Impress

Question ID : 9744432822

Q.13 Minimal meaningful word segments of a given language is referred to as _____.

- Ans
- ☒ A. morphemes
 - ☐ B. phones
 - ☐ C. phonemes
 - ☐ D. phrases

Question ID : 9744432822  Teachingninja.in

Q.14 Which of the following are the building blocks of HTML?

- Ans
- ☐ A. Constants
 - ☐ B. Variables
 - ☐ C. Macros
 - ☒ D. Elements

Question ID : 9744432815

Q.15 With reference to computational linguistics, the task of conveying the contents of the document in a shorter form can be referred to as _____.

- Ans
- ☐ A. grammar checking
 - ☐ B. reduction
 - ☒ C. summarisation
 - ☐ D. style checking

Question ID : 9744432813

Q.16 Which of the following is the correct sequence of HTTP Request / Response system?

1. A client (a browser) sends an HTTP request to the web.
2. The server returns an HTTP response (output) to the browser.
3. The server runs an application to process the request.
4. A web server receives the request.
5. The client (the browser) receives the response.

- Ans
- ☒ A. 1, 4, 3, 2, 5
 - ☐ B. 1, 5, 3, 2, 4
 - ☐ C. 1, 3, 4, 2, 5
 - ☐ D. 1, 2, 3, 4, 5

Question ID : 9744432814

Q.17 The digits that are used to express a number is called _____ and the number 0.000023 contains _____.

- Ans
- ☐ A. significant digits; 7 significant digits
 - ☐ B. approximate digits; 7 significant digits
 - ☐ C. approximate digits; 2 significant digits
 - ☒ D. significant digits; 2 significant digits

Question ID : 9744432806

Q.18 With jQuery, we can hide and show HTML elements with the _____ and _____ methods.

- Ans
- ☒ A. Hide(); Show()
 - ☐ B. Erase(); Display()
 - ☐ C. Start(); End()
 - ☐ D. Down(); Up()

Question ID : 9744432817

Q.19 A system is modelled by identifying its characteristic events and then writing a set of event routines that gives a detailed description of the change of states at the time of each event is referred to as _____.

- Ans
- ☐ A. application scheduling approach
 - ☐ B. process scheduling approach
 - ☒ C. event scheduling approach
 - ☐ D. task scheduling approach

Question ID : 9744432805

Q.20 Most employed declarative representations of grammatical structure of a language is referred to as _____.

- Ans
- ☐ A. transformations
 - ☐ B. dependencies
 - ☐ C. annotations
 - ☒ D. context-free grammars

Question ID : 9744432810