



GOVT. OF NCT OF DELHI  
Delhi Subordinate Services Selection Board  
FC-18, Institutional Area, Karkardooma, Delhi – 110092.  
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Participant ID	
Participant Name	
Test Center Name	
Test Date	07/02/2024
Test Time	12:30 PM - 2:30 PM
Subject	TGT (Computer Science)

Section : General intelligence and Reasoning Ability

Q.1 A statement is followed by two arguments in the given question. Choose the correct option after deciding which of the arguments is a 'strong' argument and which is a 'weak' argument.

Statement: Should we repeat our clothes?

Argument:

I. Yes. It helps in developing a sustainable environment.

II. No. New clothes means new beginnings.

- Ans
- 1. Only argument II is strong
  - 2. Both I and II are strong arguments
  - 3. Neither I nor II argument is strong
  - 4. Only argument I is strong

Question ID : 630680600062  
Option 1 ID : 6306802347991  
Option 2 ID : 6306802347992  
Option 3 ID : 6306802347993  
Option 4 ID : 6306802347990

Q.2 In a certain code language, 'LOMQG' is written as '16', 'WTQMC' is written as '19'. What is the code for 'LSOMI' in that code language?

- Ans
- 1. 18
  - 2. 16
  - 3. 17
  - 4. 20

Question ID : 630680600049  
Option 1 ID : 6306802347938  
Option 2 ID : 6306802347940  
Option 3 ID : 6306802347939  
Option 4 ID : 6306802347941

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Q.3 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.  
NRCH, IYNJ, FJUE, AQFB, ?

- Ans
- 1. XBMW
  - 2. QRST
  - 3. XTQR
  - 4. XMNO

Question ID : 630680600059  
Option 1 ID : 6306802347980  
Option 2 ID : 6306802347981  
Option 3 ID : 6306802347978  
Option 4 ID : 6306802347979

Q.4 In the following, select the odd letter/letters from the given alternatives.

- Ans
- 1. MKH
  - 2. MPR
  - 3. WUR
  - 4. KIF

Question ID : 630680600057  
Option 1 ID : 6306802347970  
Option 2 ID : 6306802347972  
Option 3 ID : 6306802347973  
Option 4 ID : 6306802347971

Q.5 In a certain code language, 'STOPWARS' is written as 'POTSSRAW', 'LOGIPERT' is written as 'IGOLTREP'. What is the code for 'LAPTOPST' in that code language?

- Ans
- 1. TATPOTSP
  - 2. TATPPOTS
  - 3. TAPT SOPS
  - 4. TPALT SPO

Question ID : 630680600048  
Option 1 ID : 6306802347937  
Option 2 ID : 6306802347936  
Option 3 ID : 6306802347935  
Option 4 ID : 6306802347934

Q.6 A statement is followed by a set of conclusions in the given question. Identify which conclusion follows logically from the following statement.

Statement:

Raveena goes to the gym daily, as her father has advised her to exercise.

Conclusion:

I. Raveena's father cares for her daughter health.

II. Raveena is suffering from some chronic disease.

Ans  1. Both I and II follow

2. Only I follow

3. Neither I nor II follow

4. Only II follow

Question ID : 630680600061

Option 1 ID : 6306802347988

Option 2 ID : 6306802347986

Option 3 ID : 6306802347989

Option 4 ID : 6306802347987

Q.7 If '÷' means 'x', '-' means '+', 'x' means '÷' and '+' means '-', then  $38 \times 57 \div 9 - 18 + 12 = ?$

Ans  1. 10

2. 12

3. 6

4. 7

Question ID : 630680600064

Option 1 ID : 6306802348000

Option 2 ID : 6306802348001

Option 3 ID : 6306802347998

Option 4 ID : 6306802347999

Q.8 Select that missing pair (Third number : Fourth number) which is related in the same way as the first number is related to the second number and fifth number is related to sixth number. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

442 : 633 :: ? :: 186 : 377

Ans  1. 313 : 504

2. 518 : 719

3. 111 : 292

4. 277 : 467

Question ID : 630680600067

Option 1 ID : 6306802348012

Option 2 ID : 6306802348013

Option 3 ID : 6306802348011

Option 4 ID : 6306802348010

Q.9 P, Q, R, S, T, U and V are seven friends sitting in a single row facing North. S is to the immediate right of R. T and P are neighbours of U. Q is to the immediate left of R and on second place from left most end. P is at the right most end. Who is sitting on the immediate left of P?

- Ans  1. U  
 2. R  
 3. T  
 4. S

Question ID : 630680600045  
Option 1 ID : 6306802347925  
Option 2 ID : 6306802347922  
Option 3 ID : 6306802347923  
Option 4 ID : 6306802347924

Q.10 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.

Statements:

- I. Some C are D.  
II. Some D are E.  
III. No E is G.

Conclusion:

- I. Some E are C.  
II. No D is G.  
III. Some G are C.

- Ans  1. Neither conclusion follows  
 2. Only conclusion II follows  
 3. Only conclusion I follows  
 4. Only conclusion III follows

Question ID : 630680600052  
Option 1 ID : 6306802347953  
Option 2 ID : 6306802347951  
Option 3 ID : 6306802347950  
Option 4 ID : 6306802347952

Q.11 Mona is 13th from the right end in a row of 40 girls. What is his position from the left end?

- Ans  1. 29  
 2. 27  
 3. 28  
 4. 26

Question ID : 630680600046  
Option 1 ID : 6306802347929  
Option 2 ID : 6306802347926  
Option 3 ID : 6306802347928  
Option 4 ID : 6306802347927

Q.12 In the following question, select the missing number from the given series.  
 200, 197, 206, 179, 260, ?

- Ans
- 1. -83
  - 2. -80
  - 3. -100
  - 4. 17

Question ID : 630680600066  
 Option 1 ID : 6306802348008  
 Option 2 ID : 6306802348009  
 Option 3 ID : 6306802348007  
 Option 4 ID : 6306802348006

Q.13 In the following, select the odd letter/letters from the given alternatives.

- Ans
- 1. WXUZ
  - 2. EFCG
  - 3. NOLQ
  - 4. JGL

Question ID : 630680600058  
 Option 1 ID : 6306802347977  
 Option 2 ID : 6306802347974  
 Option 3 ID : 6306802347976  
 Option 4 ID : 6306802347975

Q.14 In the following question, select the related letters from the given alternatives.  
 NQT : ORU :: ADH : ?

- Ans
- 1. ACZ
  - 2. UVZ
  - 3. BEI
  - 4. SPQ

Question ID : 630680600055  
 Option 1 ID : 6306802347965  
 Option 2 ID : 6306802347964  
 Option 3 ID : 6306802347963  
 Option 4 ID : 6306802347962

Q.15 If A + B means 'A' is the husband of 'B', A - B means 'A' is the wife of 'B', A × B means 'A' is the mother of 'B', A ÷ B means 'A' is the son of 'B'. If J ÷ P + K × M - R, then How is P related to R?

- Ans
- 1. Husband
  - 2. Wife's brother
  - 3. Father
  - 4. Wife's father

Question ID : 630680600050  
 Option 1 ID : 6306802347943  
 Option 2 ID : 6306802347942  
 Option 3 ID : 6306802347945  
 Option 4 ID : 6306802347944

Q.16 By Interchanging the given two numbers which of the following equation will be not correct?  
7 and 9

- Ans  1.  $9 - 7 + 3 = 1$   
 2.  $9 \times 4 - 7 \times 3 = 4$   
 3.  $9 \times 1 - 7 \times 2 = -11$   
 4.  $7 \times 2 + 9 - 4 = 21$

Question ID : 630680600065  
Option 1 ID : 6306802348003  
Option 2 ID : 6306802348004  
Option 3 ID : 6306802348002  
Option 4 ID : 6306802348005

Q.17 Select the option that is related to the fifth number cluster in the same way as the second number cluster is related to the first number cluster and fourth number cluster is related to third number cluster.  
 $6 : 180 :: 8 : 448 :: 10 : ?$

- Ans  1. 900  
 2. 990  
 3. 800  
 4. 999

Question ID : 630680600068  
Option 1 ID : 6306802348014  
Option 2 ID : 6306802348017  
Option 3 ID : 6306802348015  
Option 4 ID : 6306802348016

Q.18 In the given question, a statement is followed by two courses of action. Based on the information given in the statement, you have to assume everything in the statement to be true. Identify which course(s) of action logically follows.

Statement:

A bridge collapsed in town Y due to poor construction.

Course of Action:

- I. Search-and-rescue operations should be conducted immediately.  
II. People should leave town Y and move to town X.

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

Question ID : 630680600060  
Option 1 ID : 6306802347982  
Option 2 ID : 6306802347983  
Option 3 ID : 6306802347985  
Option 4 ID : 6306802347984

Q.19 A statement is followed by a set of conclusions in the given question. Identify which conclusion follows logically from the following statement.

Statement:

For the past three years the ABC Corporation has been planning to expand its operations in order to reach out to the world market.

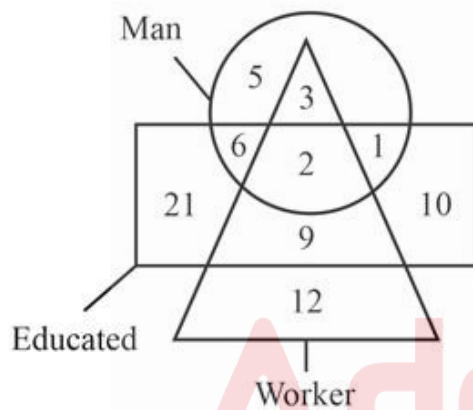
Conclusion:

- I. The ABC corporation is not competitive.
- II. The ABC corporation wants to capture the global market.

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

Question ID : 630680600063  
 Option 1 ID : 6306802347997  
 Option 2 ID : 6306802347994  
 Option 3 ID : 6306802347996  
 Option 4 ID : 6306802347995

Q.20 How many workers are uneducated?



- Ans
- 1. 17
  - 2. 12
  - 3. 8
  - 4. 10

Question ID : 630680600053  
 Option 1 ID : 6306802347957  
 Option 2 ID : 6306802347956  
 Option 3 ID : 6306802347955  
 Option 4 ID : 6306802347954

Q.1 Which Indian badminton player secured a bronze medal in the men's singles at the BWF World Badminton Championships 2023?

- Ans
- 1. Srikanth Kidambi
  - 2. HS Prannoy
  - 3. Lakshya Sen
  - 4. B. Sai Praneeth

Question ID : 630680599869  
Option 1 ID : 6306802347225  
Option 2 ID : 6306802347222  
Option 3 ID : 6306802347223  
Option 4 ID : 6306802347224

Q.2 ISRO signed MoU with which of the following companies in January 2023 to support space-tech startups in India?

- Ans
- 1. Cognizant
  - 2. Microsoft
  - 3. Oracle
  - 4. Capgemini

Question ID : 630680599871  
Option 1 ID : 6306802347233  
Option 2 ID : 6306802347232  
Option 3 ID : 6306802347230  
Option 4 ID : 6306802347231

Q.3 Which of the following articles of the Indian Constitution mentions that the official language of the Union shall be Hindi in the Devanagari script?

- Ans
- 1. Article 343
  - 2. Article 280
  - 3. Article 324
  - 4. Article 226

Question ID : 630680599879  
Option 1 ID : 6306802347265  
Option 2 ID : 6306802347263  
Option 3 ID : 6306802347264  
Option 4 ID : 6306802347262

Q.4 Narmada originates from which of the following places?

- Ans
- 1. Amarkantak plateau
  - 2. Mahabaleshwar
  - 3. Brahmagiri hills
  - 4. Chotanagpur Plateau

Question ID : 630680599881  
Option 1 ID : 6306802347270  
Option 2 ID : 6306802347271  
Option 3 ID : 6306802347272  
Option 4 ID : 6306802347273

Q.5 In which year did the Battle of Seringapatam, a war between Mysore and the British, take place?

- Ans  1. 1799  
 2. 1764  
 3. 1767  
 4. 1805

Question ID : 630680599877  
Option 1 ID : 6306802347256  
Option 2 ID : 6306802347254  
Option 3 ID : 6306802347255  
Option 4 ID : 6306802347257

Q.6 Article 315 of the Indian Constitution is related to which of the following?

- Ans  1. Finance Commission  
 2. Public Service Commissions for the Union and for the States  
 3. Administrative tribunals  
 4. Election Commission

Question ID : 630680599885  
Option 1 ID : 6306802347289  
Option 2 ID : 6306802347286  
Option 3 ID : 6306802347287  
Option 4 ID : 6306802347288

Q.7 Nalwari Fair is a cattle fair celebrated in which of the following states?

- Ans  1. Tamil Nadu  
 2. Himachal Pradesh  
 3. Assam  
 4. Gujarat

Question ID : 630680599880  
Option 1 ID : 6306802347266  
Option 2 ID : 6306802347267  
Option 3 ID : 6306802347269  
Option 4 ID : 6306802347268

Q.8 Which of the following articles of the Indian Constitution provides protection of life and personal liberty?

- Ans  1. Article 29  
 2. Article 25  
 3. Article 21  
 4. Article 19

Question ID : 630680599884  
Option 1 ID : 6306802347285  
Option 2 ID : 6306802347284  
Option 3 ID : 6306802347283  
Option 4 ID : 6306802347282

Q.9 Who among the following composed the famous Tamil epic Silappadikaram?

- Ans
- 1. Kovalan
  - 2. Thiruvalluvar
  - 3. Sattanar
  - 4. Ilango

Question ID : 630680599878  
Option 1 ID : 6306802347260  
Option 2 ID : 6306802347261  
Option 3 ID : 6306802347258  
Option 4 ID : 6306802347259

Q.10 What was the repo rate of RBI announced in December 2023?

- Ans
- 1. 3.5 percent
  - 2. 8.5 percent
  - 3. 6.5 percent
  - 4. 2.5 percent

Question ID : 630680599873  
Option 1 ID : 6306802347239  
Option 2 ID : 6306802347241  
Option 3 ID : 6306802347240  
Option 4 ID : 6306802347238

Q.11 In which of the following years was the Indian National Congress established?

- Ans
- 1. 1906
  - 2. 1893
  - 3. 1885
  - 4. 1875

Question ID : 630680599875  
Option 1 ID : 6306802347249  
Option 2 ID : 6306802347248  
Option 3 ID : 6306802347247  
Option 4 ID : 6306802347246

Q.12 Which is the most populous state in India according to 2011 census?

- Ans
- 1. Madhya Pradesh
  - 2. West Bengal
  - 3. Bihar
  - 4. Uttar Pradesh

Question ID : 630680599883  
Option 1 ID : 6306802347280  
Option 2 ID : 6306802347278  
Option 3 ID : 6306802347279  
Option 4 ID : 6306802347281

Q.13 Which of the following ministries had signed a MoU with the International Society of Krishna Consciousness (ISKCON) in New Delhi on 23 November 2023 to spread the message of Nasha Mukta Bharat Abhiyan among youth, women, students etc.?

- Ans
- 1. Ministry of Home Affairs
  - 2. Ministry of Social Justice and Empowerment
  - 3. Ministry of Health and Family Welfare
  - 4. Ministry of Food Processing Industries

Question ID : 630680599872  
Option 1 ID : 6306802347235  
Option 2 ID : 6306802347237  
Option 3 ID : 6306802347234  
Option 4 ID : 6306802347236

Q.14 What is the name of the artificial intelligence project that Jio is working on with IIT Bombay, announced by Akash Ambani in December 2023?

- Ans
- 1. Bharat GPT
  - 2. Chat GPT
  - 3. Chat Bot
  - 4. India GPT

Question ID : 630680599870  
Option 1 ID : 6306802347227  
Option 2 ID : 6306802347226  
Option 3 ID : 6306802347229  
Option 4 ID : 6306802347228

Q.15 Which of the following is NOT a rich source of Vitamin A?

- Ans
- 1. Carrot
  - 2. Mango
  - 3. Amla
  - 4. Papaya

Question ID : 630680599887  
Option 1 ID : 6306802347296  
Option 2 ID : 6306802347297  
Option 3 ID : 6306802347295  
Option 4 ID : 6306802347294

Q.16 Who among the following started the Young Bengal Movement in Calcutta?

- Ans
- 1. Dadabhai Naoroji
  - 2. W.C. Bonnerji
  - 3. Henry Derozio
  - 4. A.O. Hume

Question ID : 630680599876  
Option 1 ID : 6306802347251  
Option 2 ID : 6306802347253  
Option 3 ID : 6306802347250  
Option 4 ID : 6306802347252

Q.17 Which of the following acids is found in orange?

- Ans  1. Citric acid  
 2. Oxalic acid  
 3. Methanoic acid  
 4. Lactic acid

Question ID : 630680599888  
Option 1 ID : 6306802347301  
Option 2 ID : 6306802347300  
Option 3 ID : 6306802347298  
Option 4 ID : 6306802347299

Q.18 Which of the following Articles of the Indian Constitution empowers the Vice President to act as President or discharge his functions during casual vacancies in the office or during the absence of the President?

- Ans  1. Article 72  
 2. Article 61  
 3. Article 65  
 4. Article 52

Question ID : 630680599886  
Option 1 ID : 6306802347293  
Option 2 ID : 6306802347291  
Option 3 ID : 6306802347292  
Option 4 ID : 6306802347290

Q.19 Which of these hills is NOT included in Purvanchal or Eastern hills?

- Ans  1. Manipur hills  
 2. Shevroy Hills  
 3. Patkai hills  
 4. Naga hills

Question ID : 630680599882  
Option 1 ID : 6306802347277  
Option 2 ID : 6306802347276  
Option 3 ID : 6306802347274  
Option 4 ID : 6306802347275

Q.20 In which of the following years was ICICI formed at the initiative of World Bank, the Government of India and representative of Indian Industry?

- Ans  1. 1982  
 2. 1975  
 3. 1955  
 4. 1966

Question ID : 630680599874  
Option 1 ID : 6306802347245  
Option 2 ID : 6306802347244  
Option 3 ID : 6306802347242  
Option 4 ID : 6306802347243

## Section : Arithmetical and Numerical Ability

Q.1 The ratio of Amit's and Ankit's present age is 10 : 13. Amit is 18 years younger than Ankit. What will be the ratio of Amit's age to Ankit's age after 12 years?

Ans  1. 4 : 5

2. 3 : 5

3. 4 : 9

4. 4 : 7

Question ID : 630680600116

Option 1 ID : 6306802348205

Option 2 ID : 6306802348202

Option 3 ID : 6306802348204

Option 4 ID : 6306802348203

Q.2 If E1 is 8 times more than E2, then E2 is what percentage less than E1?

Ans  1. 96.96 percent

2. 88.88 percent

3. 80.88 percent

4. 84.88 percent

Question ID : 630680600110

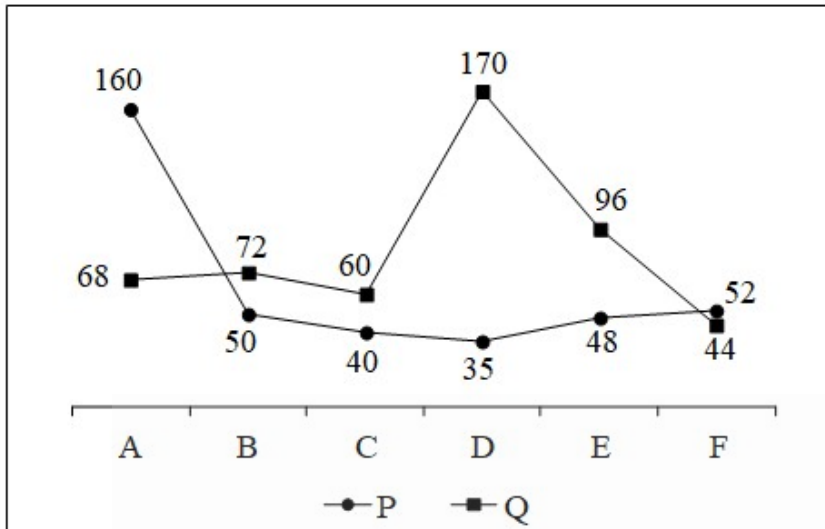
Option 1 ID : 6306802348179

Option 2 ID : 6306802348180

Option 3 ID : 6306802348178

Option 4 ID : 6306802348181

Q.3 The line chart given below shows the production of 6 companies in 2 years P and Q.



J1 = The total production of all companies in year P.  
 J2 = The total production of all companies in year Q.  
 What is the value of  $(J2 - J1)$ ?

- Ans
- ✓ 1. 125
  - ✗ 2. 110
  - ✗ 3. 150
  - ✗ 4. 85

Question ID : 630680600104  
 Option 1 ID : 6306802348156  
 Option 2 ID : 6306802348157  
 Option 3 ID : 6306802348155  
 Option 4 ID : 6306802348154

Q.4 The average age of 40 students is 21 years. It was observed that while calculating the average age, the age of a student was taken as 20 years instead of 30 years. What will be the correct average age?

- Ans
- ✓ 1. 21.25 years
  - ✗ 2. 21.22 years
  - ✗ 3. 12.12 years
  - ✗ 4. 23.84 years

Question ID : 630680600098  
 Option 1 ID : 6306802348131  
 Option 2 ID : 6306802348133  
 Option 3 ID : 6306802348132  
 Option 4 ID : 6306802348130

Q.5 Three numbers P, Q and R are in the ratio of 6 : 5 : 3 respectively. If R is 32 less than the sum of P and Q, then what is the value of Q?

- Ans
- 1. 24
  - 2. 48
  - 3. 20
  - 4. 32

Question ID : 630680600114  
Option 1 ID : 6306802348195  
Option 2 ID : 6306802348194  
Option 3 ID : 6306802348196  
Option 4 ID : 6306802348197

Q.6 What is the compound interest on (compounding annually) Rs. 14400 at the rate of 10 percent for 3 years?

- Ans
- 1. Rs. 4214.8
  - 2. Rs. 4712.6
  - 3. Rs. 4812.6
  - 4. Rs. 4766.4

Question ID : 630680600102  
Option 1 ID : 6306802348148  
Option 2 ID : 6306802348149  
Option 3 ID : 6306802348147  
Option 4 ID : 6306802348146

Q.7 Each of the length, breadth and height of a cuboid is decreased by 12 percent. What is the percentage decrease in the total surface area of the cuboid?

- Ans
- 1. 20.24 percent
  - 2. 24.78 percent
  - 3. 18.92 percent
  - 4. 22.56 percent

Question ID : 630680600120  
Option 1 ID : 6306802348219  
Option 2 ID : 6306802348221  
Option 3 ID : 6306802348218  
Option 4 ID : 6306802348220

Q.8 For what value of M, 859M is divisible by 9?

- Ans
- 1. 5
  - 2. 3
  - 3. 7
  - 4. 2

Question ID : 630680600108  
Option 1 ID : 6306802348170  
Option 2 ID : 6306802348172  
Option 3 ID : 6306802348173  
Option 4 ID : 6306802348171

Q.9 Cost price of an article is Rs. 230. If the profit percentage is 12 percent, then what is the value of profit?

- Ans  1. Rs. 27.6  
 2. Rs. 30  
 3. Rs. 32.8  
 4. Rs. 35

Question ID : 630680600112  
Option 1 ID : 6306802348187  
Option 2 ID : 6306802348186  
Option 3 ID : 6306802348188  
Option 4 ID : 6306802348189

Q.10 After giving a discount of 25 percent a cycle is sold for Rs. 7200. What is the marked price of the cycle?

- Ans  1. Rs. 9500  
 2. Rs. 10000  
 3. Rs. 9000  
 4. Rs. 9600

Question ID : 630680600113  
Option 1 ID : 6306802348191  
Option 2 ID : 6306802348193  
Option 3 ID : 6306802348192  
Option 4 ID : 6306802348190

Q.11 Simple interest and compound interest (compounding annually) on a principal at a certain rate of interest for 2 years is Rs. 28800 and Rs. 36000 respectively. What is the principal?

- Ans  1. Rs. 30000  
 2. Rs. 28800  
 3. Rs. 29750  
 4. Rs. 28850

Question ID : 630680600100  
Option 1 ID : 6306802348138  
Option 2 ID : 6306802348139  
Option 3 ID : 6306802348140  
Option 4 ID : 6306802348141

Q.12 A train of length 210 metres is running at a speed of 54 km/hr. In how much time it will completely cross a platform of 390 metres?

- Ans  1. 50 seconds  
 2. 60 seconds  
 3. 40 seconds  
 4. 30 seconds

Question ID : 630680600119  
Option 1 ID : 6306802348217  
Option 2 ID : 6306802348215  
Option 3 ID : 6306802348216  
Option 4 ID : 6306802348214

Q.13 What is the value of  $33 \div 11 + 75 \div 5 \times 2 - 6 \div 12 \times 30$ ?

- Ans
- 1. 15
  - 2. 18
  - 3. 9
  - 4. 42

Question ID : 630680600109  
Option 1 ID : 6306802348177  
Option 2 ID : 6306802348175  
Option 3 ID : 6306802348174  
Option 4 ID : 6306802348176

Q.14 The population of a town is 30000. If every year the population increases by 20 percent, then what will be the population of the town after 3 years?

- Ans
- 1. 51840
  - 2. 51720
  - 3. 50820
  - 4. 48000

Question ID : 630680600111  
Option 1 ID : 6306802348183  
Option 2 ID : 6306802348184  
Option 3 ID : 6306802348185  
Option 4 ID : 6306802348182

Q.15 What is the Highest Common Factor of 12, 36 and 240

- Ans
- 1. 12
  - 2. 30
  - 3. 18
  - 4. 480

Question ID : 630680600107  
Option 1 ID : 6306802348168  
Option 2 ID : 6306802348167  
Option 3 ID : 6306802348166  
Option 4 ID : 6306802348169

Q.16 The breadth of a rectangular hall is  $\frac{5}{8}$  of its length. If the area of the floor is 160 metre<sup>2</sup>, then what is the difference between the length and breadth of the hall?

- Ans
- 1. 8 metre
  - 2. 6 metre
  - 3. 10 metre
  - 4. 4 metre

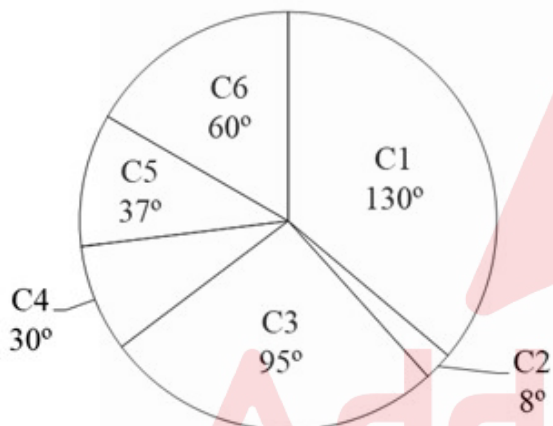
Question ID : 630680600122  
Option 1 ID : 6306802348229  
Option 2 ID : 6306802348227  
Option 3 ID : 6306802348226  
Option 4 ID : 6306802348228

Q.17 X and Y together can complete a work in 60 days. Y and Z together can complete the same work in 90 days. If X, Y and Z all work together, then the same work gets completed in 45 days. How many days will X and Z together take to complete the same work?

- Ans
- 1. 120 days
  - 2. 90 days
  - 3. 60 days
  - 4. 150 days

Question ID : 630680600117  
 Option 1 ID : 6306802348207  
 Option 2 ID : 6306802348209  
 Option 3 ID : 6306802348206  
 Option 4 ID : 6306802348208

Q.18 The pie chart given below shows the number of employees in 6 different companies. The total number of employees in all these 6 companies 18000. The number of employees in a particular company is shown in terms of degree with respect to the total number of employee in all these 6 companies.



Which of the following statement is correct?

- I. The difference between average number of employee in company C1 and C2 and the average number of employee in company C3 and C5 are 150.
- II. The number of employee in company C6 is 50 percent of the number of employee in company C4.
- III. The ratio of number of employee in company C2 to the number of employee in C6 are 2 : 15.

- Ans
- 1. I, II and III
  - 2. I and II
  - 3. II and III
  - 4. I and III

Question ID : 630680600105  
 Option 1 ID : 6306802348161  
 Option 2 ID : 6306802348158  
 Option 3 ID : 6306802348160  
 Option 4 ID : 6306802348159

Q.19 A truck left 8 hours early than the scheduled time and in order to reach its destination 600 km away on time, it had to decrease its usual speed by 20 km/hr. What is the usual speed of the truck?

- Ans  1. 30 km/hr  
 2. 50 km/hr  
 3. 40 km/hr  
 4. 60 km/hr

Question ID : 630680600118  
Option 1 ID : 6306802348213  
Option 2 ID : 6306802348211  
Option 3 ID : 6306802348210  
Option 4 ID : 6306802348212

Q.20 The simple interest on a sum for 11 years is Rs. 42000. The rate of interest for the first 4 years is 3 percent per annum and for the next 7 years is 9 percent per annum. What is the sum?

- Ans  1. Rs. 70000  
 2. Rs. 56000  
 3. Rs. 60000  
 4. Rs. 58000

Question ID : 630680600099  
Option 1 ID : 6306802348134  
Option 2 ID : 6306802348137  
Option 3 ID : 6306802348135  
Option 4 ID : 6306802348136

Section : Test of English Language and Comprehension

Q.1 Choose the most appropriate synonym of the given word.  
Obstinate

- Ans  1. Headstrong  
 2. Devilish  
 3. Joyful  
 4. Agreeable

Question ID : 630680599693  
Option 1 ID : 6306802346522  
Option 2 ID : 6306802346523  
Option 3 ID : 6306802346524  
Option 4 ID : 6306802346525

Q.2 Choose the most appropriate antonym of the given word.  
Quarantine

- Ans
- 1. Quarrel
  - 2. Assimilate
  - 3. Mourn
  - 4. Circumstance

Question ID : 630680599694  
Option 1 ID : 6306802346528  
Option 2 ID : 6306802346527  
Option 3 ID : 6306802346529  
Option 4 ID : 6306802346526

Q.3 Choose the most appropriate option for the given blank.  
You can't hear the chirping of the birds from outside, \_\_\_\_\_?

- Ans
- 1. were they
  - 2. is she
  - 3. can you
  - 4. was they

Question ID : 630680599675  
Option 1 ID : 6306802346453  
Option 2 ID : 6306802346450  
Option 3 ID : 6306802346451  
Option 4 ID : 6306802346452

Q.4 Select the sentence with no spelling errors

- Ans
- 1. Compliance with the traffic laws is necessary for safe driving.
  - 2. Compliance with the trafic laws is necessary for safe driving.
  - 3. Compliance with the traffic laws is necessary for safe driving.
  - 4. Compliance with the traffic laws is necessary for safe driving.

Question ID : 630680599687  
Option 1 ID : 6306802346501  
Option 2 ID : 6306802346500  
Option 3 ID : 6306802346498  
Option 4 ID : 6306802346499

Q.5 Choose the most appropriate antonym of the underlined word in the given sentence.  
We should always be friendly to others and help them in need.

- Ans
- 1. Hostile
  - 2. Igneous
  - 3. Scorching
  - 4. Mammoth

Question ID : 630680599691  
Option 1 ID : 6306802346515  
Option 2 ID : 6306802346516  
Option 3 ID : 6306802346514  
Option 4 ID : 6306802346517

Q.6 Rearrange the parts of the sentence in correct order.

Developing basic

P. is the only way to face an

Q. infrastructure and the production sector

R. responsibility to help states in this respect

S. economic crisis and the Centre has the

Ans  1. QPSR

2. RSPQ

3. SRPQ

4. PRSQ

Question ID : 630680599682

Option 1 ID : 6306802346478

Option 2 ID : 6306802346479

Option 3 ID : 6306802346481

Option 4 ID : 6306802346480

Q.7 Choose the most appropriate idiom for the given situation.

The team stopped working since they had been working for 6 hours continuously.

Ans  1. Down to the wire

2. Cracked someone up

3. Flip the bird

4. Call it a day

Question ID : 630680599690

Option 1 ID : 6306802346511

Option 2 ID : 6306802346512

Option 3 ID : 6306802346510

Option 4 ID : 6306802346513

Q.8 Select the sentence with no spelling errors

Ans  1. I'd like to rich a consensus on the issue before we take a formal vote.

2. I'd like to reach a consensus on the essue before we take a formal vote.

3. I'd like to reach a consensus on the issue before we take a formal vote.

4. I'd like to reach a consensus on the issue before we take a formal vote.

Question ID : 630680599685

Option 1 ID : 6306802346492

Option 2 ID : 6306802346493

Option 3 ID : 6306802346491

Option 4 ID : 6306802346490

- Q.9 The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.
- P. As the Plains was settled and grassland converted for crops and grazing, fires were seen as a threat and extinguished.
- Q. Historically, fires set by lightning burned naturally at regular intervals across the Great Plains.
- R. Native Americans, who saw the benefits, periodically burned the prairie to improve grazing conditions for buffalo.
- S. In the last 50 years, as woody plants began increasing and transforming the grassland into a shrub ecosystem, fire has returned to the Plains in the form of controlled burns.

Ans  1. SRQP  
 2. PSQR  
 3. RSQP  
 4. QRPS

Question ID : 630680599684  
Option 1 ID : 6306802346486  
Option 2 ID : 6306802346487  
Option 3 ID : 6306802346489  
Option 4 ID : 6306802346488

- Q.10 A sentence has been given with a blank to be filled with an appropriate option. Choose the correct alternative.  
He took another bite and chewed \_\_\_\_\_.

Ans  1. slow  
 2. slower  
 3. slowly  
 4. slowest

Question ID : 630680599679  
Option 1 ID : 6306802346468  
Option 2 ID : 6306802346467  
Option 3 ID : 6306802346469  
Option 4 ID : 6306802346466

- Q.11 A sentence has been given with a blank to be filled with an appropriate option. Choose the correct alternative.  
Nina felt her eyes brim \_\_\_\_\_ tears and blinked hard.

Ans  1. with  
 2. by  
 3. of  
 4. off

Question ID : 630680599678  
Option 1 ID : 6306802346463  
Option 2 ID : 6306802346462  
Option 3 ID : 6306802346464  
Option 4 ID : 6306802346465

Q.12 A sentence has been given with a blank to be filled with an appropriate option. Choose the correct alternative.

The sea provides humanity with a bounty of nutrient-rich food, which we have benefited \_\_\_\_\_ thousands of years.

- Ans
- 1. for since
  - 2. for
  - 3. of from
  - 4. from of

Question ID : 630680599681  
Option 1 ID : 6306802346477  
Option 2 ID : 6306802346476  
Option 3 ID : 6306802346474  
Option 4 ID : 6306802346475

Q.13 A sentence has been given with a blank to be filled with an appropriate option. Choose the correct alternative.

Melitopol residents \_\_\_\_\_ the streets following the alleged kidnapping of mayor.

- Ans
- 1. took on
  - 2. took to
  - 3. taken off
  - 4. taken at

Question ID : 630680599680  
Option 1 ID : 6306802346471  
Option 2 ID : 6306802346472  
Option 3 ID : 6306802346470  
Option 4 ID : 6306802346473

Q.14 Choose the most appropriate option for the given blank.  
She was wearing a ball gown in the party, \_\_\_\_\_?

- Ans
- 1. wasn't them
  - 2. wasn't she
  - 3. weren't they
  - 4. isn't she

Question ID : 630680599677  
Option 1 ID : 6306802346461  
Option 2 ID : 6306802346459  
Option 3 ID : 6306802346460  
Option 4 ID : 6306802346458

Q.15 Choose the most appropriate idiom for the given situation.  
She prepared herself for hard work as her exams were near.

- Ans
- 1. Drag one's feet
  - 2. Roll up one's sleeves
  - 3. Back to square one
  - 4. Hit the books

Question ID : 630680599688  
Option 1 ID : 6306802346503  
Option 2 ID : 6306802346505  
Option 3 ID : 6306802346502  
Option 4 ID : 6306802346504

**Comprehension:**

Read the following passage and answer the questions given below.

The two main reasons of this chronic and unmanageable problem is rapidly ever increasing population and defective education system. Such a huge population, India finds it difficult to make any significant success in the areas of employment, alleviation of poverty and backwardness. Every sixth person in the world is an Indian. In other words, we are adding an Australia to our population every year or to Japan every ten years. There are about 31 new babies every minute or 45,000 new people daily. Thus, every year there are about 16 million more people to feed, cloth, educate and give employment. This prevailing trend of population growth is quite disturbing.

Unemployment rate in India is showing an increasing trend since 2011 when it was 3.5 percent. The same rose to 3.6 percent in 2012 and climbed to 3.7 percent last year.

**SubQuestion No : 16**

Q.16 Through this passage, the author's main idea is to bring to your notice the

- 
- Ans
- 1. population growth of Japan and Australia
  - 2. low population growth and its benefits
  - 3. rate of poverty in India and its cause
  - 4. population explosion in India and the resulting problems

Question ID : 630680599696  
Option 1 ID : 6306802346533  
Option 2 ID : 6306802346532  
Option 3 ID : 6306802346530  
Option 4 ID : 6306802346531

**Comprehension:**

Read the following passage and answer the questions given below.

The two main reasons of this chronic and unmanageable problem is rapidly ever increasing population and defective education system. Such a huge population, India finds it difficult to make any significant success in the areas of employment, alleviation of poverty and backwardness. Every sixth person in the world is an Indian. In other words, we are adding an Australia to our population every year or to Japan every ten years. There are about 31 new babies every minute or 45,000 new people daily. Thus, every year there are about 16 million more people to feed, cloth, educate and give employment. This prevailing trend of population growth is quite disturbing.

Unemployment rate in India is showing an increasing trend since 2011 when it was 3.5 percent. The same rose to 3.6 percent in 2012 and climbed to 3.7 percent last year.

**SubQuestion No : 17**

**Q.17 According to the passage, which of these problems cannot be successfully tackled due to a large population?**

- I. Unemployment
- II. Poverty
- III. Backwardness

- Ans
- 1. Only I
  - 2. Only III
  - 3. Only II and III
  - 4. I, II and III

Question ID : 630680599699  
 Option 1 ID : 6306802346542  
 Option 2 ID : 6306802346544  
 Option 3 ID : 6306802346543  
 Option 4 ID : 6306802346545

**Comprehension:**

Read the following passage and answer the questions given below.

The two main reasons of this chronic and unmanageable problem is rapidly ever increasing population and defective education system. Such a huge population, India finds it difficult to make any significant success in the areas of employment, alleviation of poverty and backwardness. Every sixth person in the world is an Indian. In other words, we are adding an Australia to our population every year or to Japan every ten years. There are about 31 new babies every minute or 45,000 new people daily. Thus, every year there are about 16 million more people to feed, cloth, educate and give employment. This prevailing trend of population growth is quite disturbing.

Unemployment rate in India is showing an increasing trend since 2011 when it was 3.5 percent. The same rose to 3.6 percent in 2012 and climbed to 3.7 percent last year.

**SubQuestion No : 18**

**Q.18 Through the given statement 'we are adding an Australia to our population every year', the author implies that \_\_\_\_\_.**

- Ans
- 1. our population growth is equivalent to that of Australia
  - 2. population composition of India and Australia, is similar.
  - 3. the number of people added to Australia's population is equal to India's entire population
  - 4. the number of people added to India's population every year is equal to Australia's entire population

Question ID : 630680599697  
 Option 1 ID : 6306802346536  
 Option 2 ID : 6306802346535  
 Option 3 ID : 6306802346534  
 Option 4 ID : 6306802346537

**Comprehension:**

Read the following passage and answer the questions given below.

The two main reasons of this chronic and unmanageable problem is rapidly ever increasing population and defective education system. Such a huge population, India finds it difficult to make any significant success in the areas of employment, alleviation of poverty and backwardness. Every sixth person in the world is an Indian. In other words, we are adding an Australia to our population every year or to Japan every ten years. There are about 31 new babies every minute or 45,000 new people daily. Thus, every year there are about 16 million more people to feed, cloth, educate and give employment. This prevailing trend of population growth is quite disturbing.

Unemployment rate in India is showing an increasing trend since 2011 when it was 3.5 percent. The same rose to 3.6 percent in 2012 and climbed to 3.7 percent last year.

**SubQuestion No : 19**

**Q.19 Choose the word that has the most nearly the same meaning as the word given.**

**Alleviation**

- Ans**  1. Eradicate  
 2. Indigenous  
 3. Intensify  
 4. Impressive

Question ID : 630680599698  
 Option 1 ID : 6306802346539  
 Option 2 ID : 6306802346541  
 Option 3 ID : 6306802346538  
 Option 4 ID : 6306802346540

**Comprehension:**

Read the following passage and answer the questions given below.

The two main reasons of this chronic and unmanageable problem is rapidly ever increasing population and defective education system. Such a huge population, India finds it difficult to make any significant success in the areas of employment, alleviation of poverty and backwardness. Every sixth person in the world is an Indian. In other words, we are adding an Australia to our population every year or to Japan every ten years. There are about 31 new babies every minute or 45,000 new people daily. Thus, every year there are about 16 million more people to feed, cloth, educate and give employment. This prevailing trend of population growth is quite disturbing.

Unemployment rate in India is showing an increasing trend since 2011 when it was 3.5 percent. The same rose to 3.6 percent in 2012 and climbed to 3.7 percent last year.

**SubQuestion No : 20**

**Q.20 Which of the following words is opposite in meaning to the word 'extinct' as used in the passage?**

- Ans**  1. prevailing  
 2. lost  
 3. obsolete  
 4. defunct

Question ID : 630680599700  
 Option 1 ID : 6306802346546  
 Option 2 ID : 6306802346548  
 Option 3 ID : 6306802346549  
 Option 4 ID : 6306802346547

- Q.1 1. कहानियां, जिसमें बेहतर सीख, संस्कार व जीवन में अच्छी चीज  
2. बच्चों के कोमल मन में बातों को गहराई तक पहुंचाने का  
3. की ओर बढ़ने की प्रेरणा मौजूद होती है  
4. तरीका कहानियों से बेहतर और क्या हो सकता है। खासकर, पंचतंत्र की प्रस्तुत खंडित वाक्य में वाक्य संरचना का सही क्रम क्या होगा?

Ans  1. 1,2,4,3

2. 4,3,1,2

3. 2,4,1,3

4. 3,4,1,2

Question ID : 630680600014

Option 1 ID : 6306802347800

Option 2 ID : 6306802347801

Option 3 ID : 6306802347799

Option 4 ID : 6306802347798

- Q.2 निम्नलिखित प्रश्न में, दिए गए चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए मुहावरे के अर्थ को सर्वश्रेष्ठ रूप से व्यक्त करता है।  
दुकुर-दुकुर देखना

Ans  1. बहुत लज्जित होना

2. बुरा-भला कहना

3. खूब परिश्रम करना

4. टकटकी लगाकर देखना

Question ID : 630680600010

Option 1 ID : 6306802347785

Option 2 ID : 6306802347782

Option 3 ID : 6306802347783

Option 4 ID : 6306802347784

- Q.3 दिए गए वाक्य में उचित विशेषण का चयन करके रिक्त स्थान की पूर्ति करें।  
महाराज जी के चर्चे तो \_\_\_\_\_ लोकों में फैले हुए हैं।

Ans  1. तीनों

2. स्वभाव

3. प्रत्येक

4. जिसको

Question ID : 630680600021

Option 1 ID : 6306802347828

Option 2 ID : 6306802347827

Option 3 ID : 6306802347829

Option 4 ID : 6306802347826

Q.4 निम्नलिखित प्रश्न में, दिए गए चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए मुहावरे के अर्थ को सर्वश्रेष्ठ रूप से व्यक्त करता है।  
तौल-तौल कर मुँह से शब्द निकालना

- Ans
- 1. क्रोध दबाना
  - 2. बातें बदलना
  - 3. बहुत सोच-विचार कर बोलना
  - 4. नुकसान पहुंचाना

Question ID : 630680600009  
Option 1 ID : 6306802347781  
Option 2 ID : 6306802347779  
Option 3 ID : 6306802347780  
Option 4 ID : 6306802347778

Q.5 निम्नलिखित शब्द का संधि विच्छेद करें।  
प्रमाण

- Ans
- 1. पर+मान
  - 2. प्रा+माण
  - 3. प्र+मान
  - 4. परम+अण

Question ID : 630680600015  
Option 1 ID : 6306802347802  
Option 2 ID : 6306802347804  
Option 3 ID : 6306802347805  
Option 4 ID : 6306802347803

Q.6 निम्नलिखित प्रश्न में, दिए गए चार विकल्पों में से, उस विकल्प का चयन करें जो दी गई लोकोक्ति के अर्थ को सर्वश्रेष्ठ रूप से व्यक्त करता है।  
अपना हाथ जगन्नाथ

- Ans
- 1. दोहरा फायदा होना
  - 2. पूरी तरह अनियंत्रित होना
  - 3. स्वयं द्वारा किया गया कार्य अच्छा होता है
  - 4. दोनों ओर संकट होना

Question ID : 630680600011  
Option 1 ID : 6306802347789  
Option 2 ID : 6306802347788  
Option 3 ID : 6306802347786  
Option 4 ID : 6306802347787

- Q.7 1. आश्विन के महीने का तीसरा पहर था। हर तरफ रामलीला का उत्साह था  
 2. अचानक एक व्यक्ति वहाँ मेरे बारे में पूछते हुए व मेरा नाम लेते हुए वहाँ आया  
 3. मैं भी अपने एक दोस्त के घर था, वहाँ ताश की बाजी चल रही थी  
 4. और मेरे बगल की कुर्सी पर आकर बैठ गया। मैं उसे नहीं जानता था  
 प्रस्तुत खंडित वाक्य में वाक्य संरचना का सही क्रम क्या होगा?

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

Question ID : 630680600012  
 Option 1 ID : 6306802347792  
 Option 2 ID : 6306802347790  
 Option 3 ID : 6306802347793  
 Option 4 ID : 6306802347791

- Q.8 दिए गए वाक्य में उचित संज्ञा का चयन करके रिक्त स्थान की पूर्ति करें।  
 माही ने आते ही \_\_\_\_\_ से सबका दिल जीत लिया।

- Ans  1. लकड़ी  
 2. प्रार्थना  
 3. प्लास्टिक  
 4. प्यार

Question ID : 630680600020  
 Option 1 ID : 6306802347825  
 Option 2 ID : 6306802347823  
 Option 3 ID : 6306802347824  
 Option 4 ID : 6306802347822

- Q.9 नीचे दिए गए शब्द का पर्यायवाची शब्द ज्ञात करें।  
 गणेश

- Ans  1. नीरद  
 2. चक्रपाणि  
 3. कौशलेन्द्र  
 4. लम्बोदर

Question ID : 630680600004  
 Option 1 ID : 6306802347758  
 Option 2 ID : 6306802347761  
 Option 3 ID : 6306802347760  
 Option 4 ID : 6306802347759

Q.10 निम्नलिखित शब्द के अनेकार्थी शब्द का चयन करें।  
गुण

- Ans  1. लाल  
 2. धतूरा  
 3. इच्छा  
 4. विशेषता

Question ID : 630680600002  
Option 1 ID : 6306802347752  
Option 2 ID : 6306802347751  
Option 3 ID : 6306802347753  
Option 4 ID : 6306802347750

Q.11 निम्नलिखित शब्द का विलोम शब्द ज्ञात करें।  
मोक्ष

- Ans  1. खगोल  
 2. शाश्वत  
 3. बंधन  
 4. सभ्य

Question ID : 630680600007  
Option 1 ID : 6306802347773  
Option 2 ID : 6306802347770  
Option 3 ID : 6306802347772  
Option 4 ID : 6306802347771

Q.12 दिए गए वाक्य में उचित कारक का चयन करके रिक्त स्थान की पूर्ति करें।  
मिठाई \_\_\_\_\_ डब्बे में से एक मिठाई निकालकर ले आओ।

- Ans  1. का  
 2. में  
 3. के  
 4. पर

Question ID : 630680600019  
Option 1 ID : 6306802347819  
Option 2 ID : 6306802347820  
Option 3 ID : 6306802347821  
Option 4 ID : 6306802347818

Q.13 निम्नलिखित शब्द का संधि विच्छेद करें।  
इत्यादि

- Ans  1. इत+ आदि  
 2. इट+ आदि  
 3. इदः+ आदि  
 4. इति+ आदि

Question ID : 630680600017  
Option 1 ID : 6306802347810  
Option 2 ID : 6306802347813  
Option 3 ID : 6306802347811  
Option 4 ID : 6306802347812

Q.14 दिए गए वाक्य में उचित क्रिया का चयन करके रिक्त स्थान की पूर्ति करें।  
ठंड के मारे मेरे दांत भी \_\_\_\_\_ लगे।

- Ans
- 1. लंगड़ाने
  - 2. कटकटाने
  - 3. सठियाने
  - 4. कांपने

Question ID : 630680600018  
Option 1 ID : 6306802347817  
Option 2 ID : 6306802347815  
Option 3 ID : 6306802347816  
Option 4 ID : 6306802347814

Q.15 नीचे दिए गए शब्द का पर्यायवाची शब्द ज्ञात करें।  
रमा

- Ans
- 1. निशा
  - 2. फूल
  - 3. कटक
  - 4. श्री

Question ID : 630680600006  
Option 1 ID : 6306802347768  
Option 2 ID : 6306802347766  
Option 3 ID : 6306802347767  
Option 4 ID : 6306802347769

**Comprehension:**

निम्नलिखित गद्यांश के आधार पर पांच प्रश्न दिए गए हैं। गद्यांश को ध्यानपूर्वक पढ़ें तथा प्रत्येक प्रश्न के चार विकल्पों में से सही विकल्प चुनें।

एक शोध के अनुसार, जलवायु परिवर्तन के कारण गर्म तापमान यूरोपीय आल्प्स में पहाड़ी बकरियों की जीवन शैली को बदल रहा है। अल्पाइन आइबेक्स (कैपरा आइबेक्स) एक पहाड़ी बकरी की प्रजाति है जो गर्म दिनों से बचने के लिए अपनी दैनिक आदतों को रात की आदतों में बदलने के लिए मजबूर है। जीवनशैली में यह बदलाव उन्हें भेड़ियों जैसे शिकारियों के प्रति संवेदनशील बना रहा है, जिससे उनकी आवाजाही में बाधा आ रही है और अंततः उनकी जनसंख्या में गिरावट आ सकती है।

इटली में सासारी विश्वविद्यालय और फेरारा विश्वविद्यालय के शोधकर्ताओं ने 14 वर्षों की अवधि में 47 आइबेक्स का अध्ययन किया। अध्ययन, जिसका शीर्षक है- "सीकिंग टेम्पोरल रिस्पूजिया टू हीट स्ट्रेस: परभक्षी जोखिम के बावजूद रात्रिकालीन गतिविधि में वृद्धि", रॉयल सोसाइटी जर्नल में प्रकाशित हुई थी। मोशन सेंसर और ग्लोबल पोजिशनिंग सिस्टम ट्रैकर्स का उपयोग करके बकरियों को 2006 और 2019 के बीच ट्रैक किया गया था।

शोधकर्ताओं ने नोट किया कि चंद्रमा की रोशनी के कारण गर्म दिनों और चमकदार रातों के दौरान आइबेक्स की रात्रि गतिविधियां बढ़ गईं। "मनुष्यों की व्यापक उपस्थिति या भूदृश्य संरचना के कारण अनुकूल क्षेत्रों में प्रवास में बाधा उत्पन्न हो सकती है। ऐसे मामलों में, जानवर अस्थायी आग्राम में अपने पारिस्थितिक स्थान, यानी उनकी दैनिक गतिविधि लय को संशोधित करके अपनी वर्तमान वितरण सीमा और इष्टतम थर्मल आला को बनाए रख सकते हैं, "उन्होंने लिखा।

जानवर शाम के ठंडे घंटों के कारण ऊर्जा संतुलन और कुशल गर्मी अपव्यय प्राप्त करने के लिए ऐसा करते हैं।

व्यवहार पैटर्न में बदलाव इस बात का प्राथमिक प्रमाण है कि जानवर गर्मी के तनाव से बच रहे हैं और रात की गतिविधियों को अपना रहे हैं और इस प्रक्रिया में, शिकार के जोखिम बढ़ रहे हैं।

जलवायु परिवर्तन के अलावा, मानव गतिविधियाँ, शहरी विकास, कृषि, शिकार और अन्य जैसे अन्य दबाव भी स्तनपायी प्रजातियों की रात्रिचर गतिविधि में वैश्विक वृद्धि को बढ़ा रहे हैं।

**SubQuestion No : 16**

Q. 16 गद्यांश के आधार पर उचित केन्द्रीय विषय का चयन करें।

- Ans
- 1. शोध और उनमें प्रकाशित तथ्य की जांच ज़रूरी है
  - 2. अल्पाइन आइबेक्स की बदलती गतिविधियाँ और घटती जनसंख्या का जोखिम
  - 3. परिवर्तन मानव जीवन की महत्वपूर्ण शैली है
  - 4. अल्पाइन आइबेक्स की विविध प्रजातियाँ

Question ID : 630680600001

Option 1 ID : 6306802347747

Option 2 ID : 6306802347749

Option 3 ID : 6306802347746

Option 4 ID : 6306802347748

**Comprehension:**

निम्नलिखित गद्यांश के आधार पर पांच प्रश्न दिए गए हैं। गद्यांश को ध्यानपूर्वक पढ़ें तथा प्रत्येक प्रश्न के चार विकल्पों में से सही विकल्प चुनें।

एक शोध के अनुसार, जलवायु परिवर्तन के कारण गर्म तापमान यूरोपीय आल्प्स में पहाड़ी बकरियों की जीवन शैली को बदल रहा है। अल्पाइन आइबेक्स (कैपरा आइबेक्स) एक पहाड़ी बकरी की प्रजाति है जो गर्म दिनों से बचने के लिए अपनी दैनिक आदतों को रात की आदतों में बदलने के लिए मजबूर है। जीवनशैली में यह बदलाव उन्हें भेड़ियों जैसे शिकारियों के प्रति संवेदनशील बना रहा है, जिससे उनकी आवाजाही में बाधा आ रही है और अंततः उनकी जनसंख्या में गिरावट आ सकती है।

इटली में सासारी विश्वविद्यालय और फेरारा विश्वविद्यालय के शोधकर्ताओं ने 14 वर्षों की अवधि में 47 आइबेक्स का अध्ययन किया। अध्ययन, जिसका शीर्षक है- "सीकिंग टेम्पोरल रिस्पूजिया टू हीट स्ट्रेस: परभक्षी जोखिम के बावजूद रात्रिकालीन गतिविधि में वृद्धि", रॉयल सोसाइटी जर्नल में प्रकाशित हुई थी। मोशन सेंसर और ग्लोबल पोजिशनिंग सिस्टम ट्रैकर्स का उपयोग करके बकरियों को 2006 और 2019 के बीच ट्रैक किया गया था।

शोधकर्ताओं ने नोट किया कि चंद्रमा की रोशनी के कारण गर्म दिनों और चमकदार रातों के दौरान आइबेक्स की रात्रि गतिविधियां बढ़ गईं। "मनुष्यों की व्यापक उपस्थिति या भूदृश्य संरचना के कारण अनुकूल क्षेत्रों में प्रवास में बाधा उत्पन्न हो सकती है। ऐसे मामलों में, जानवर अस्थायी आयाम में अपने पारिस्थितिक स्थान, यानी उनकी दैनिक गतिविधि लय को संशोधित करके अपनी वर्तमान वितरण सीमा और इष्टतम थर्मल आला को बनाए रख सकते हैं, "उन्होंने लिखा।

जानवर शाम के ठंडे घंटों के कारण ऊर्जा संतुलन और कुशल गर्मी अपव्यय प्राप्त करने के लिए ऐसा करते हैं। व्यवहार पैटर्न में बदलाव इस बात का प्राथमिक प्रमाण है कि जानवर गर्मी के तनाव से बच रहे हैं और रात की गतिविधियों को अपना रहे हैं और इस प्रक्रिया में, शिकार के जोखिम बढ़ रहे हैं।

जलवायु परिवर्तन के अलावा, मानव गतिविधियां, शहरी विकास, कृषि, शिकार और अन्य जैसे अन्य दबाव भी स्तनपायी प्रजातियों की रात्रिचर गतिविधि में वैश्विक वृद्धि को बढ़ा रहे हैं।

**SubQuestion No : 17**

Q.17 गद्यांश के आधार पर उस विकल्प का चयन करें जिसमें दिया गया तथ्य नहीं है।

- Ans
- 1. अल्पाइन आइबेक्स (कैपरा आइबेक्स) एक पहाड़ी बकरी की प्रजाति है।
  - 2. व्यवहार पैटर्न में बदलाव से शिकार के जोखिम कम हो रहे हैं।
  - 3. जीवनशैली में बदलाव के कारण अल्पाइन आइबेक्स की जनसंख्या में गिरावट आ सकती है।
  - 4. गर्म दिनों से बचने के लिए अल्पाइन आइबेक्स अपनी दैनिक आदतों को रात की आदतों में बदलने के लिए मजबूर हैं।

Question ID : 630680599998

Option 1 ID : 6306802347737

Option 2 ID : 6306802347735

Option 3 ID : 6306802347734

Option 4 ID : 6306802347736

**Comprehension:**

निम्नलिखित गद्यांश के आधार पर पांच प्रश्न दिए गए हैं। गद्यांश को ध्यानपूर्वक पढ़ें तथा प्रत्येक प्रश्न के चार विकल्पों में से सही विकल्प चुनें।

एक शोध के अनुसार, जलवायु परिवर्तन के कारण गर्म तापमान यूरोपीय आल्प्स में पहाड़ी बकरियों की जीवन शैली को बदल रहा है। अल्पाइन आइबेक्स (कैपरा आइबेक्स) एक पहाड़ी बकरी की प्रजाति है जो गर्म दिनों से बचने के लिए अपनी दैनिक आदतों को रात की आदतों में बदलने के लिए मजबूर है। जीवनशैली में यह बदलाव उन्हें भेड़ियों जैसे शिकारियों के प्रति संवेदनशील बना रहा है, जिससे उनकी आवाजाही में बाधा आ रही है और अंततः उनकी जनसंख्या में गिरावट आ सकती है।

इटली में सासारी विश्वविद्यालय और फेरारा विश्वविद्यालय के शोधकर्ताओं ने 14 वर्षों की अवधि में 47 आइबेक्स का अध्ययन किया। अध्ययन, जिसका शीर्षक है- "सीकिंग टेम्पोरल रिफ्यूजिया टू हीट स्ट्रेस: परभक्षी जोखिम के बावजूद रात्रिकालीन गतिविधि में वृद्धि", रॉयल सोसाइटी जर्नल में प्रकाशित हुई थी। मोशन सेंसर और ग्लोबल पोजिशनिंग सिस्टम ट्रैकर्स का उपयोग करके बकरियों को 2006 और 2019 के बीच ट्रैक किया गया था।

शोधकर्ताओं ने नोट किया कि चंद्रमा की रोशनी के कारण गर्म दिनों और चमकदार रातों के दौरान आइबेक्स की रात्रि गतिविधियां बढ़ गईं। "मनुष्यों की व्यापक उपस्थिति या भूदृश्य संरचना के कारण अनुकूल क्षेत्रों में प्रवास में बाधा उत्पन्न हो सकती है। ऐसे मामलों में, जानवर अस्थायी आश्रय में अपने पारिस्थितिक स्थान, यानी उनकी दैनिक गतिविधि लय को संशोधित करके अपनी वर्तमान वितरण सीमा और इष्टतम थर्मल आला को बनाए रख सकते हैं, "उन्होंने लिखा।

जानवर शाम के ठंडे घंटों के कारण ऊर्जा संतुलन और कुशल गर्मी अपव्यय प्राप्त करने के लिए ऐसा करते हैं। व्यवहार पैटर्न में बदलाव इस बात का प्राथमिक प्रमाण है कि जानवर गर्मी के तनाव से बच रहे हैं और रात की गतिविधियों को अपना रहे हैं और इस प्रक्रिया में, शिकार के जोखिम बढ़ रहे हैं।

जलवायु परिवर्तन के अलावा, मानव गतिविधियाँ, शहरी विकास, कृषि, शिकार और अन्य जैसे अन्य दबाव भी स्तनपायी प्रजातियों की रात्रिचर गतिविधि में वैश्विक वृद्धि को बढ़ा रहे हैं।

**SubQuestion No : 18**

Q. 18 गद्यांश में दिए गए निम्नलिखित शब्द का उचित विलोम शब्द चुनें।  
परिवर्तन

- Ans
- 1. प्रवर
  - 2. बहुज
  - 3. प्रस्थान
  - 4. स्थिरता

Question ID : 630680600000

Option 1 ID : 6306802347742

Option 2 ID : 6306802347745

Option 3 ID : 6306802347743

Option 4 ID : 6306802347744

**Comprehension:**

निम्नलिखित गद्यांश के आधार पर पांच प्रश्न दिए गए हैं। गद्यांश को ध्यानपूर्वक पढ़ें तथा प्रत्येक प्रश्न के चार विकल्पों में से सही विकल्प चुनें।

एक शोध के अनुसार, जलवायु परिवर्तन के कारण गर्म तापमान यूरोपीय आल्प्स में पहाड़ी बकरियों की जीवन शैली को बदल रहा है। अल्पाइन आइबेक्स (कैपरा आइबेक्स) एक पहाड़ी बकरी की प्रजाति है जो गर्म दिनों से बचने के लिए अपनी दैनिक आदतों को रात की आदतों में बदलने के लिए मजबूर है। जीवनशैली में यह बदलाव उन्हें भेड़ियों जैसे शिकारियों के प्रति संवेदनशील बना रहा है, जिससे उनकी आवाजाही में बाधा आ रही है और अंततः उनकी जनसंख्या में गिरावट आ सकती है।

इटली में सासारी विश्वविद्यालय और फेरारा विश्वविद्यालय के शोधकर्ताओं ने 14 वर्षों की अवधि में 47 आइबेक्स का अध्ययन किया। अध्ययन, जिसका शीर्षक है- "सीकिंग टेम्पोरल रिफ्यूजिया टू हीट स्ट्रेस: परभक्षी जोखिम के बावजूद रात्रिकालीन गतिविधि में वृद्धि", रॉयल सोसाइटी जर्नल में प्रकाशित हुई थी। मोशन सेंसर और ग्लोबल पोजिशनिंग सिस्टम ट्रैकर्स का उपयोग करके बकरियों को 2006 और 2019 के बीच ट्रैक किया गया था।

शोधकर्ताओं ने नोट किया कि चंद्रमा की रोशनी के कारण गर्म दिनों और चमकदार रातों के दौरान आइबेक्स की रात्रि गतिविधियां बढ़ गईं। "मनुष्यों की व्यापक उपस्थिति या भूदृश्य संरचना के कारण अनुकूल क्षेत्रों में प्रवास में बाधा उत्पन्न हो सकती है। ऐसे मामलों में, जानवर अस्थायी आयाम में अपने पारिस्थितिक स्थान, यानी उनकी दैनिक गतिविधि लय को संशोधित करके अपनी वर्तमान वितरण सीमा और इष्टतम थर्मल आला को बनाए रख सकते हैं, "उन्होंने लिखा।

जानवर शाम के ठंडे घंटों के कारण ऊर्जा संतुलन और कुशल गर्मी अपव्यय प्राप्त करने के लिए ऐसा करते हैं। व्यवहार पैटर्न में बदलाव इस बात का प्राथमिक प्रमाण है कि जानवर गर्मी के तनाव से बच रहे हैं और रात की गतिविधियों को अपना रहे हैं और इस प्रक्रिया में, शिकार के जोखिम बढ़ रहे हैं।

जलवायु परिवर्तन के अलावा, मानव गतिविधियाँ, शहरी विकास, कृषि, शिकार और अन्य जैसे अन्य दबाव भी स्तनपायी प्रजातियों की रात्रिचर गतिविधि में वैश्विक वृद्धि को बढ़ा रहे हैं।

**SubQuestion No : 19**

Q. 19 गद्यांश को ध्यान में रखते हुए 'जीवनशैली' शब्द का उपयुक्त अर्थ ज्ञात करें।

- Ans
- 1. किसी व्यक्ति, समूह या संस्कृति के घूमने का विशिष्ट तरीका
  - 2. किसी व्यक्ति, समूह या संस्कृति के जीवन का विशिष्ट तरीका
  - 3. किसी व्यक्ति, समूह या संस्कृति के बदलाव का विशिष्ट तरीका
  - 4. किसी व्यक्ति, समूह या संस्कृति के ठहरने का विशिष्ट तरीका

Question ID : 630680599997

Option 1 ID : 6306802347731

Option 2 ID : 6306802347733

Option 3 ID : 6306802347732

Option 4 ID : 6306802347730

**Comprehension:**

निम्नलिखित गद्यांश के आधार पर पांच प्रश्न दिए गए हैं। गद्यांश को ध्यानपूर्वक पढ़ें तथा प्रत्येक प्रश्न के चार विकल्पों में से सही विकल्प चुनें।

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जानवर शाम के ठंडे घंटों के कारण ऊर्जा संतुलन और कुशल गर्मी अपव्यय प्राप्त करने के लिए ऐसा करते हैं। व्यवहार पैटर्न में बदलाव इस बात का प्राथमिक प्रमाण है कि जानवर गर्मी के तनाव से बच रहे हैं और रात की गतिविधियों को अपना रहे हैं और इस प्रक्रिया में, शिकार के जोखिम बढ़ रहे हैं।

जलवायु परिवर्तन के अलावा, मानव गतिविधियाँ, शहरी विकास, कृषि, शिकार और अन्य जैसे अन्य दबाव भी स्तनपायी प्रजातियों की रात्रिचर गतिविधि में वैश्विक वृद्धि को बढ़ा रहे हैं।

**SubQuestion No : 20**

Q.20 गद्यांश में दिए गए निम्नलिखित शब्द का उचित पर्यायवाची शब्द चुनें।  
प्रमाण

- Ans
- 1. मिथ्या
  - 2. कृत्रिम
  - 3. काल्पनिक
  - 4. साक्ष्य

Question ID : 630680599999

Option 1 ID : 6306802347739

Option 2 ID : 6306802347740

Option 3 ID : 6306802347741

Option 4 ID : 6306802347738

Section : Discipline 1

Q.1 Match the AI Ethics with its correct description.

	AI Ethics		Description
I	Data privacy	1	It is a standard metric that measures how many users in a database share a particular attribute.
II	K-anonymity	2	It is a trade-off between the amount of data collected and the performance of a product or service.
III	L-diversity	3	It extends the idea by merging several sensitive attributes together.

- Ans
- 1. I-1, II-3, III-2
  - 2. I-2, II-3, III-1
  - 3. I-1, II-2, III-3
  - 4. I-2, II-1, III-3

Question ID : 630680598500  
 Option 1 ID : 6306802341761  
 Option 2 ID : 6306802341759  
 Option 3 ID : 6306802341760  
 Option 4 ID : 6306802341758

Q.2 What is the advantage of exploratory Data Analysis in Big Data and Analytics?

- Ans
- 1. Less realistic statements of accuracy
  - 2. Flexible ways to generate hypotheses
  - 3. Usually does not provide definitive answers
  - 4. More realistic statements of accuracy

Question ID : 630680598502  
 Option 1 ID : 6306802341769  
 Option 2 ID : 6306802341766  
 Option 3 ID : 6306802341767  
 Option 4 ID : 6306802341768

Q.3 In computer networking, a Repeater is a device that operates only in the \_\_\_\_\_ layer.

- Ans
- 1. Physical
  - 2. Network
  - 3. Data link
  - 4. Session

Question ID : 630680598468  
 Option 1 ID : 6306802341631  
 Option 2 ID : 6306802341633  
 Option 3 ID : 6306802341630  
 Option 4 ID : 6306802341632

Q.4 Which of the following data function in SQL returns the current database system timestamp as a 'datetime' value without the database time zone offset?

- Ans
- 1. GET TIME
  - 2. GET DATE
  - 3. CAST DATE
  - 4. CAST TIME

Question ID : 630680598497  
Option 1 ID : 6306802341748  
Option 2 ID : 6306802341747  
Option 3 ID : 6306802341749  
Option 4 ID : 6306802341746

Q.5 Which of the following type of function used with strings in the Python language returns the character with the highest ASCII value?

- Ans
- 1. len ()
  - 2. hvalue ()
  - 3. max ()
  - 4. long ()

Question ID : 630680598464  
Option 1 ID : 6306802341614  
Option 2 ID : 6306802341617  
Option 3 ID : 6306802341615  
Option 4 ID : 6306802341616

Q.6 Which of the following command is used in the communication system call of an operating system?

- Ans
- 1. Request device, release device
  - 2. Attach or detach remote devices
  - 3. Allocate and free memory
  - 4. Read, write, reposition

Question ID : 630680598445  
Option 1 ID : 6306802341538  
Option 2 ID : 6306802341539  
Option 3 ID : 6306802341541  
Option 4 ID : 6306802341540

Q.7 A \_\_\_\_\_ index is an ordered file whose records are of fixed length with two fields primary key and a pointer to a disk block.

- Ans
- 1. Secondary
  - 2. Multilevel
  - 3. Primary
  - 4. Clustering

Question ID : 630680598493  
Option 1 ID : 6306802341732  
Option 2 ID : 6306802341733  
Option 3 ID : 6306802341730  
Option 4 ID : 6306802341731

Q.8 In AI biases many AI models are \_\_\_\_\_.

- I. deepfakes
- II. Black boxes
- III. K-anonymity

- Ans
- 1. Only II
  - 2. Only I
  - 3. I, II and III
  - 4. Only I and III

Question ID : 630680598503  
Option 1 ID : 6306802341771  
Option 2 ID : 6306802341770  
Option 3 ID : 6306802341773  
Option 4 ID : 6306802341772

Q.9 Select the correct output for the following python code?

```
a = 20
b = 35
if a >= b:
    print("yes")
else:
    print("No")
```

- Ans
- 1. Syntax
  - 2. No
  - 3. Yes
  - 4. Error

Question ID : 630680598529  
Option 1 ID : 6306802341877  
Option 2 ID : 6306802341874  
Option 3 ID : 6306802341875  
Option 4 ID : 6306802341876

Q.10 In cyber security, what remedy does the law provide?

- Ans
- 1. Apology
  - 2. Imprisonment
  - 3. Technologies
  - 4. Computer networks

Question ID : 630680598513  
Option 1 ID : 6306802341813  
Option 2 ID : 6306802341811  
Option 3 ID : 6306802341810  
Option 4 ID : 6306802341812

Q.11 Which of the following is an input device which can detect the presence or absence of a pencil or pen mark on a paper?

- Ans  1. Optical Mark Reader (OMR)  
 2. Light pen  
 3. Digitizer  
 4. Optical Character Recognizer (OCR)

Question ID : 630680598480  
Option 1 ID : 6306802341680  
Option 2 ID : 6306802341679  
Option 3 ID : 6306802341678  
Option 4 ID : 6306802341681

Q.12 Which of the following type conversion function in the Python language, is used to convert a character into an integer?

- Ans  1. tuple ()  
 2. dict ()  
 3. set ()  
 4. ord ()

Question ID : 630680598463  
Option 1 ID : 6306802341612  
Option 2 ID : 6306802341610  
Option 3 ID : 6306802341611  
Option 4 ID : 6306802341613

Q.13 Using K-map, simplify the Boolean function:  $F(x, y, z) = \sum (0, 2, 4, 5, 6)$   
Which of the following is simplified function?

- Ans  1.  $F = z + x'y'$   
 2.  $F = z' + xy'$   
 3.  $F = z + x'y$   
 4.  $F = z' + xy$

Question ID : 630680598443  
Option 1 ID : 6306802341532  
Option 2 ID : 6306802341531  
Option 3 ID : 6306802341530  
Option 4 ID : 6306802341533

Q.14 In Python language, which of the following is correct for 'strip ()' function?

- Ans  1. It returns the string by removing trailing and leading white spaces  
 2. It returns a list from the string depending upon the delimiter that we specify  
 3. It returns the power of values passed  
 4. It returns the string with the first character in upper case and lowering the case for rest of the string

Question ID : 630680598465  
Option 1 ID : 6306802341619  
Option 2 ID : 6306802341618  
Option 3 ID : 6306802341621  
Option 4 ID : 6306802341620

Q.15 Which of the following statement is correct for DATEDIFF function in SQL?  
I. This function reports difference between the arguments 'startdate' and 'enddate'.  
II. In this, 'datepart' argument/value can be specified in a variable.

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

Question ID : 630680598496  
Option 1 ID : 6306802341742  
Option 2 ID : 6306802341745  
Option 3 ID : 6306802341744  
Option 4 ID : 6306802341743

Q.16 In the data link layer, \_\_\_\_\_ is based on automatic repeat request, which is the retransmission of data.

- Ans
- 1. Framing
  - 2. Physical addressing
  - 3. Error control
  - 4. Flow control

Question ID : 630680598469  
Option 1 ID : 6306802341634  
Option 2 ID : 6306802341637  
Option 3 ID : 6306802341635  
Option 4 ID : 6306802341636

Q.17 In Python language, which of the following method of lists is used to add an element to the end of the list?

- Ans
- 1. index ()
  - 2. sort ()
  - 3. pop ()
  - 4. append ()

Question ID : 630680598466  
Option 1 ID : 6306802341623  
Option 2 ID : 6306802341622  
Option 3 ID : 6306802341625  
Option 4 ID : 6306802341624

Q.18 Which of the following part of the CPU has the necessary electronic circuitry to perform binary addition and shift operations in computer system?

- Ans
- 1. Arithmetic Logic Unit (ALU)
  - 2. Memory Buses
  - 3. Registers
  - 4. Control Unit

Question ID : 630680598479  
Option 1 ID : 6306802341674  
Option 2 ID : 6306802341676  
Option 3 ID : 6306802341677  
Option 4 ID : 6306802341675

Q.19 Match the categories of AI with its correct description.

	Categories of AI		Description
I	Artificial Narrow Intelligence	1	Level of general and strong AI that is smarter than humans if that's possible.
II	Artificial General Intelligence	2	Such system seems to act intelligently but they don't have any awareness of what they are doing.
III	Super Intelligence	3	Acting like a smart human and thinking like one with a conscious.

- Ans
- 1. I-2, II-3, III-1
  - 2. I-2, II-1, III-3
  - 3. I-1, II-2, III-3
  - 4. I-1, II-3, III-2

Question ID : 630680598499  
 Option 1 ID : 6306802341755  
 Option 2 ID : 6306802341754  
 Option 3 ID : 6306802341756  
 Option 4 ID : 6306802341757

Q.20 Choose the correct output for the following Python code.

```
tuple_var_mix = ("Example", 1, "Tuple")
print(tuple_var_mix)
```

- Ans
- 1. {Example, 1, Tuple}
  - 2. (Example, 1, tuple)
  - 3. ('Example', 1, 'Tuple')
  - 4. [Example, 1, 'Tuple']



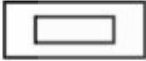

Question ID : 630680598527  
 Option 1 ID : 6306802341867  
 Option 2 ID : 6306802341866  
 Option 3 ID : 6306802341868  
 Option 4 ID : 6306802341869

Q.1 In which of the following condition of Deadlock Prevention, at least one resource must be non-sharable?

- Ans
- 1. Circular wait
  - 2. Hold and wait
  - 3. Mutual Exclusion
  - 4. No preemption

Question ID : 630680598459  
 Option 1 ID : 6306802341597  
 Option 2 ID : 6306802341595  
 Option 3 ID : 6306802341594  
 Option 4 ID : 6306802341596

Q.2 Which of the following notation of ERD (Entity – Relationship Diagram) shows the 'Weak Entity'?

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



Question ID : 630680598490  
 Option 1 ID : 6306802341718  
 Option 2 ID : 6306802341721  
 Option 3 ID : 6306802341719  
 Option 4 ID : 6306802341720

Q.3 Which of the following statement is correct for a 'Volume Control block' in File-System Implementation?

- Ans
- 1. It is used to organize the files
  - 2. It has a unique identifier number to allow association with a directory entry
  - 3. It contains the number of block in the partition
  - 4. It can contain information needed by the system to boot an operating system from that volume

Question ID : 630680598457  
 Option 1 ID : 6306802341586  
 Option 2 ID : 6306802341589  
 Option 3 ID : 6306802341587  
 Option 4 ID : 6306802341588

Q.4 In Python language, which of following mode for opening the file, opens the file for both reading and writing and file pointer will be placed at the start of the file?

- Ans
- 1. ab
  - 2. rb
  - 3. r+
  - 4. a+

Question ID : 630680598467  
Option 1 ID : 6306802341629  
Option 2 ID : 6306802341628  
Option 3 ID : 6306802341627  
Option 4 ID : 6306802341626

Q.5 Which of the following is characteristic of a RISC (Reduced Instruction Set Computer) processor?

- Ans
- 1. Microprogrammed control
  - 2. Instruction that manipulate operands in memory
  - 3. Fixed-length, easily decoded instruction format
  - 4. A large number (typically from 100 to 250) of instructions

Question ID : 630680598449  
Option 1 ID : 6306802341555  
Option 2 ID : 6306802341556  
Option 3 ID : 6306802341557  
Option 4 ID : 6306802341554

Q.6 Which among the following given below is correct in context of privacy issues in social media and online platforms?

- Ans
- 1. The sharing on social media especially by children must be monitored at all times.
  - 2. The addiction of social media does not hamper the academic performance of a student.
  - 3. Rumours and fake news cannot put the administration at risk.
  - 4. Mishandling of social media cannot create tension in the law and order.

Question ID : 630680598514  
Option 1 ID : 6306802341814  
Option 2 ID : 6306802341815  
Option 3 ID : 6306802341817  
Option 4 ID : 6306802341816

Q.7 In which of the following type of addressing mode, the instruction specifies a register in the CPU whose contents give the address of the operand in memory?

- Ans
- 1. Register indirect mode
  - 2. Indirect address mode
  - 3. Implied mode
  - 4. Immediate mode

Question ID : 630680598451  
Option 1 ID : 6306802341563  
Option 2 ID : 6306802341565  
Option 3 ID : 6306802341564  
Option 4 ID : 6306802341562

Q.8 In HTML body tag, which of the following attribute indicates the colour of the hyperlinks after the mouse is clicked on it?

- Ans  1. VLINK  
 2. ALINK  
 3. LINK  
 4. HLINK

Question ID : 630680598487  
Option 1 ID : 6306802341707  
Option 2 ID : 6306802341706  
Option 3 ID : 6306802341708  
Option 4 ID : 6306802341709

Q.9 Which of the following statement(s) is/are correct regarding Assembly language?  
I. An assembler converts (or assembles) the symbolic program of an Assembly language into its equivalent machine program.  
II. A program written in an assembly language is machine dependent.

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

Question ID : 630680598448  
Option 1 ID : 6306802341552  
Option 2 ID : 6306802341551  
Option 3 ID : 6306802341550  
Option 4 ID : 6306802341553

Q.10 Which of the following Instruction format use an implied accumulator (AC) register for all data manipulation?

- Ans  1. One-address instructions  
 2. Three-address instructions  
 3. Zero-address instructions  
 4. Two-address instructions

Question ID : 630680598450  
Option 1 ID : 6306802341560  
Option 2 ID : 6306802341558  
Option 3 ID : 6306802341561  
Option 4 ID : 6306802341559

Q.11 In context of the Digital Personal Data Protection Act, 2023, which of the given following is correct?

- Ans  1. "Child" means an individual who has not completed the age of eighteen years  
 2. "Digital personal data" means personal data in physical form  
 3. "Chairperson" does not mean the chairperson of the board  
 4. "Data" means representation of facts only

Question ID : 630680598515  
Option 1 ID : 6306802341819  
Option 2 ID : 6306802341821  
Option 3 ID : 6306802341820  
Option 4 ID : 6306802341818

Q.12 Which of the following File operation need not involve any actual I/O (Input/Output) and is also known as 'File Seek'?

- Ans
- 1. Deleting a file
  - 2. Repositioning within a file
  - 3. Reading a file
  - 4. Truncating a file

Question ID : 630680598456  
Option 1 ID : 6306802341584  
Option 2 ID : 6306802341583  
Option 3 ID : 6306802341582  
Option 4 ID : 6306802341585

Q.13 In CPU, which of the following type of register is required by the control unit and contains the instruction currently being executed?

- Ans
- 1. Instruction register
  - 2. Accumulator
  - 3. Program register
  - 4. Memory data register

Question ID : 630680598446  
Option 1 ID : 6306802341545  
Option 2 ID : 6306802341542  
Option 3 ID : 6306802341544  
Option 4 ID : 6306802341543

Q.14 The values in a dictionary can be \_\_\_\_\_ but the keys in the dictionary should be \_\_\_\_\_ in Python programming languages

- Ans
- 1. repeated, repeated
  - 2. repeated, unique
  - 3. unique, repeated
  - 4. unique, unique

Question ID : 630680598530  
Option 1 ID : 6306802341878  
Option 2 ID : 6306802341880  
Option 3 ID : 6306802341879  
Option 4 ID : 6306802341881

Q.15 Which of the following part of operating system allocates the CPU to next scheduled process in the system?

- Ans
- 1. File manager
  - 2. Dispatcher
  - 3. Scheduler
  - 4. Input/output handler

Question ID : 630680598481  
Option 1 ID : 6306802341684  
Option 2 ID : 6306802341682  
Option 3 ID : 6306802341685  
Option 4 ID : 6306802341683

Q.16 Which of the following printer is type of impact printer?

- Ans
- 1. Ink-Jet
  - 2. Laser
  - 3. Dot matrix
  - 4. Thermal

Question ID : 630680598447  
Option 1 ID : 6306802341547  
Option 2 ID : 6306802341549  
Option 3 ID : 6306802341546  
Option 4 ID : 6306802341548

Q.17 Which of the following statement is correct regarding point-to-point connection in the data communication?

- I. It provides a dedicated link between two devices.
- II. It is a timeshared connection.

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

Question ID : 630680598474  
Option 1 ID : 6306802341655  
Option 2 ID : 6306802341656  
Option 3 ID : 6306802341657  
Option 4 ID : 6306802341654

Q.18 In Direct Memory Access (DMA) \_\_\_\_\_, a block sequence consisting of a number of memory words is transferred in a continuous burst.

- Ans
- 1. Bus granting
  - 2. Burst transfer
  - 3. Cycle stealing
  - 4. Controller count

Question ID : 630680598452  
Option 1 ID : 6306802341567  
Option 2 ID : 6306802341568  
Option 3 ID : 6306802341566  
Option 4 ID : 6306802341569

Q.19 Which of the following normal form of normalization in relational model, disallows relations within relations or relations as attribute values within tuples?

- Ans
- 1. Fourth
  - 2. First
  - 3. Second
  - 4. Third

Question ID : 630680598492  
Option 1 ID : 6306802341729  
Option 2 ID : 6306802341726  
Option 3 ID : 6306802341727  
Option 4 ID : 6306802341728

Q.20 Which of the following is NOT an attribute that included by the HR tag which puts a horizontal line on the page?

- Ans  1. SHADE  
 2. SIZE  
 3. ALIGN  
 4. WIDTH

Question ID : 630680598486  
Option 1 ID : 6306802341702  
Option 2 ID : 6306802341703  
Option 3 ID : 6306802341705  
Option 4 ID : 6306802341704

Section : Discipline 3

Q.1 \_\_\_\_\_ enables the creator owner to earn recognition or financial benefit by using their creation or invention.

- Ans  1. Patent  
 2. Copyright  
 3. Intellectual property right  
 4. Data protection

Question ID : 630680598510  
Option 1 ID : 6306802341801  
Option 2 ID : 6306802341798  
Option 3 ID : 6306802341799  
Option 4 ID : 6306802341800

Q.2 Over half of the e-waste generated in the developed world are exported to developing countries, mainly to \_\_\_\_\_, where metals like copper, iron, silicon, nickel and gold are recovered during recycling process.

- Ans  1. Afghanistan  
 2. Kazakhstan  
 3. UAE  
 4. India

Question ID : 630680598518  
Option 1 ID : 6306802341831  
Option 2 ID : 6306802341832  
Option 3 ID : 6306802341833  
Option 4 ID : 6306802341830

Q.3 \_\_\_\_\_ is a two-dimensional labelled data structure with columns of potentially different type, in data handling with pandas.

- Ans
- 1. Series
  - 2. Missing data
  - 3. Iteration
  - 4. Data frames

Question ID : 630680598520  
Option 1 ID : 6306802341838  
Option 2 ID : 6306802341840  
Option 3 ID : 6306802341841  
Option 4 ID : 6306802341839

Q.4 A semaphore is an integer variable that, apart from initialization, is accessed only through which of the following standard atomic operation?

- Ans
- 1. release ()
  - 2. lock ()
  - 3. acquire ()
  - 4. signal ()

Question ID : 630680598458  
Option 1 ID : 6306802341592  
Option 2 ID : 6306802341593  
Option 3 ID : 6306802341591  
Option 4 ID : 6306802341590

Q.5 From the challenges given below, which of the challenge does IoT adoption include?

- Ans
- 1. Deepfake
  - 2. Black box
  - 3. Security
  - 4. Cloud storage

Question ID : 630680598501  
Option 1 ID : 6306802341764  
Option 2 ID : 6306802341765  
Option 3 ID : 6306802341762  
Option 4 ID : 6306802341763

Q.6 Which of the following tag of HTML language is a container for the tags that contain information about the page?

- Ans
- 1. <title>
  - 2. <html>
  - 3. <head>
  - 4. <body>

Question ID : 630680598482  
Option 1 ID : 6306802341689  
Option 2 ID : 6306802341688  
Option 3 ID : 6306802341687  
Option 4 ID : 6306802341686

Q.7 Irreparable computer and other electronic goods are known as \_\_\_\_\_ in tech world.

- Ans
- 1. Man made waste
  - 2. Natural waste
  - 3. Waste
  - 4. Electronic waste

Question ID : 630680598517  
Option 1 ID : 6306802341828  
Option 2 ID : 6306802341829  
Option 3 ID : 6306802341826  
Option 4 ID : 6306802341827

Q.8 Which of the following is a one-dimensional labelled array capable of holding any data type (integers, strings, floating point numbers, python objects, etc) in data handling with pandas?

- Ans
- 1. Series
  - 2. Missing data
  - 3. Data frames
  - 4. Iteration

Question ID : 630680598521  
Option 1 ID : 6306802341842  
Option 2 ID : 6306802341845  
Option 3 ID : 6306802341843  
Option 4 ID : 6306802341844

Q.9 The E-waste (management) rules 2016 of India, recognizes two broad categories: IT and telecommunication equipment and consumer electrical and electronics including which of the following material?

- I. Fluorescent
- II. Mercury

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

Question ID : 630680598516  
Option 1 ID : 6306802341822  
Option 2 ID : 6306802341823  
Option 3 ID : 6306802341824  
Option 4 ID : 6306802341825

Q.10 Which of the following form is correct to show a 'comments' in the HTML language?

- Ans
- 1. < -- This is a comment -- >
  - 2. < -- This is a comment -- ! >
  - 3. < ! -- This is a comment -- ! >
  - 4. < ! -- This is a comment -- >

Question ID : 630680598483  
Option 1 ID : 6306802341690  
Option 2 ID : 6306802341691  
Option 3 ID : 6306802341693  
Option 4 ID : 6306802341692

Q.11 If you encounter an import Error, what does it mean?  
I. Python could find pandas in list of available libraries  
II. Pandas couldn't find python in list of available libraries  
III. Python couldn't find Pandas in list of available libraries

- Ans
- 1. Only III
  - 2. I, II and III
  - 3. Only I
  - 4. Only I and III

Question ID : 630680598523  
Option 1 ID : 6306802341851  
Option 2 ID : 6306802341853  
Option 3 ID : 6306802341850  
Option 4 ID : 6306802341852

Q.12 Data frame in Pandas has a method which takes a column name (for a regular index) or a list of column names to create a new, re-indexed data frame, which of the following is correct method?

- Ans
- 1. dFb
  - 2. data.index ()
  - 3. set\_index ()
  - 4. dFmi

Question ID : 630680598524  
Option 1 ID : 6306802341857  
Option 2 ID : 6306802341855  
Option 3 ID : 6306802341854  
Option 4 ID : 6306802341856

Q.13 Which of the following is correct for Identifiers name used in Python language?

- Ans
- 1. An identifier can have underscore (\_) symbol
  - 2. We must use keywords as identifier
  - 3. There is restriction the length of an identifier
  - 4. An identifier must start with a digit

Question ID : 630680598461  
Option 1 ID : 6306802341604  
Option 2 ID : 6306802341603  
Option 3 ID : 6306802341605  
Option 4 ID : 6306802341602

Q.14 Which of the following rule is needed to be followed while declaring the XML (Extensible Markup Language) elements name?

- Ans
- 1. Name must start with a number
  - 2. Name can contain spaces
  - 3. Name must not start with the letter xml
  - 4. Name cannot contain letter, numbers and other characters

Question ID : 630680598485  
Option 1 ID : 6306802341698  
Option 2 ID : 6306802341699  
Option 3 ID : 6306802341700  
Option 4 ID : 6306802341701

Q.15 In digital realm, which refers to the legal rights to protect invention or creation in intellectual property, are given to whom?

- Ans
- 1. Employee
  - 2. Seller
  - 3. Creator/inventor
  - 4. Buyers

Question ID : 630680598512  
Option 1 ID : 6306802341809  
Option 2 ID : 6306802341807  
Option 3 ID : 6306802341808  
Option 4 ID : 6306802341806

Q.16 Which of the following symbol is used to add comments in the Python language?

- Ans
- 1. \*
  - 2. #
  - 3. !
  - 4. //

Question ID : 630680598462  
Option 1 ID : 6306802341609  
Option 2 ID : 6306802341608  
Option 3 ID : 6306802341606  
Option 4 ID : 6306802341607

Q.17 Which operation is provided in Pandas, when multiple tables can be concatenated both column wise and row wise as database?

- Ans
- 1. SUM
  - 2. MERGE
  - 3. GROUP BY
  - 4. SELECT

Question ID : 630680598522  
Option 1 ID : 6306802341848  
Option 2 ID : 6306802341846  
Option 3 ID : 6306802341847  
Option 4 ID : 6306802341849

Q.18 IPR (Intellectual Property Right) is given for how much time, in digital realm?

- Ans
- 1. Certain period of time
  - 2. Unlimited period of time
  - 3. Uncertain period of time
  - 4. Depending on case to case basis

Question ID : 630680598511  
Option 1 ID : 6306802341802  
Option 2 ID : 6306802341803  
Option 3 ID : 6306802341804  
Option 4 ID : 6306802341805

Q.19 In E-waste management, from which factors, there comes the exposure variability in electronic waste?

- Ans
- 1. Type of E-waste
  - 2. Quantity of the Pollutants in air
  - 3. Management processes of the air pollution
  - 4. Medical waste

Question ID : 630680598519  
Option 1 ID : 6306802341834  
Option 2 ID : 6306802341835  
Option 3 ID : 6306802341836  
Option 4 ID : 6306802341837

Q.20 Which of the following HTML tag is used to puts a line break in the text?

- Ans
- 1. <B>
  - 2. <BL>
  - 3. <I>
  - 4. <BR>

Question ID : 630680598484  
Option 1 ID : 6306802341695  
Option 2 ID : 6306802341696  
Option 3 ID : 6306802341697  
Option 4 ID : 6306802341694

Section : Discipline 4

Q.1 Which of the following maths function in SQL returns the smallest integer greater than, or equal to, the specified numeric expression?

- Ans
- 1. ROUND
  - 2. CEILING
  - 3. ABS
  - 4. FLOOR

Question ID : 630680598498  
Option 1 ID : 6306802341750  
Option 2 ID : 6306802341751  
Option 3 ID : 6306802341752  
Option 4 ID : 6306802341753

Q.2 Which of the following page replacement algorithms(s) does not suffer from Belady's anomaly in Operating System?

- I. Least-Recently Used (LRU) page replacement.
- II. First-In, First-Out (FIFO) page replacement.

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

Question ID : 630680598455  
Option 1 ID : 6306802341578  
Option 2 ID : 6306802341581  
Option 3 ID : 6306802341579  
Option 4 ID : 6306802341580

Q.3 String is a collection of one or more character which consists of \_\_\_\_\_ in programming language.

- I. Letters
- II. Numbers
- III. Symbols

- Ans
- 1. I, II and III
  - 2. Only I
  - 3. Only I and III
  - 4. Only II

Question ID : 630680598526  
Option 1 ID : 6306802341865  
Option 2 ID : 6306802341862  
Option 3 ID : 6306802341864  
Option 4 ID : 6306802341863

Q.4 Which of the following symbol is used with SELECT command of SQL, to retrieve all the attribute values of the selected tuples?

- Ans
- 1. #
  - 2. %
  - 3. \*
  - 4. :

Question ID : 630680598488  
Option 1 ID : 6306802341712  
Option 2 ID : 6306802341710  
Option 3 ID : 6306802341711  
Option 4 ID : 6306802341713

Q.5 Which of the following is commonly used in UNICODE encoding schemes and number system in computer science?

- Ans
- 1. UTF-17
  - 2. UTF-61
  - 3. UTF-8
  - 4. UTF-35

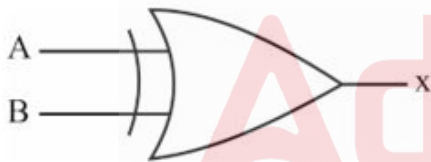
Question ID : 630680598506  
Option 1 ID : 6306802341783  
Option 2 ID : 6306802341785  
Option 3 ID : 6306802341782  
Option 4 ID : 6306802341784

Q.6 Extensions like .txt, .py, .CSV, etc in python language are example of \_\_\_\_\_.

- Ans
- 1. text files
  - 2. text editor
  - 3. UNI CODE
  - 4. ASCII

Question ID : 630680598504  
Option 1 ID : 6306802341776  
Option 2 ID : 6306802341777  
Option 3 ID : 6306802341775  
Option 4 ID : 6306802341774

Q.7 Which of the following logic gate is shown in the given Graphic Symbol? (where, A and B = inputs, x = output)



- Ans
- 1. OR gate
  - 2. NAND gate
  - 3. NOR gate
  - 4. Exclusive – OR (XOR) gate

Question ID : 630680598441  
Option 1 ID : 6306802341524  
Option 2 ID : 6306802341525  
Option 3 ID : 6306802341522  
Option 4 ID : 6306802341523

Q.8 Which of the following phase of the compiler, gathers type information and saves it in either the syntax tree or the symbol table, for subsequent use during intermediate code generation?

- Ans  1. Semantic Analyzer  
 2. Code Analyzer  
 3. Syntax Analyzer  
 4. Lexical Analyzer

Question ID : 630680598444  
Option 1 ID : 6306802341536  
Option 2 ID : 6306802341537  
Option 3 ID : 6306802341534  
Option 4 ID : 6306802341535

Q.9 Number with decimal points is called \_\_\_\_\_ in programming language.

- Ans  1. Fractional point numbers  
 2. Complex numbers  
 3. Imaginary Numbers  
 4. Integer

Question ID : 630680598525  
Option 1 ID : 6306802341859  
Option 2 ID : 6306802341860  
Option 3 ID : 6306802341861  
Option 4 ID : 6306802341858

Q.10 Which of the following operation includes all tuples that are in R-set but not in S-set?

- Ans  1.  $R - S$   
 2.  $R \cap S$   
 3.  $R \cup S$   
 4.  $R \times S$

Question ID : 630680598489  
Option 1 ID : 6306802341714  
Option 2 ID : 6306802341716  
Option 3 ID : 6306802341715  
Option 4 ID : 6306802341717

Q.11 Which of the following is NOT an aggregate function in SQL?

- Ans  1. CROSS PRODUCT  
 2. MAXIMUM  
 3. COUNT  
 4. SUM

Question ID : 630680598491  
Option 1 ID : 6306802341724  
Option 2 ID : 6306802341725  
Option 3 ID : 6306802341723  
Option 4 ID : 6306802341722

Q.12 \_\_\_\_\_ has been developed to incorporate all the character of every written language of the world. It provides a unique number for every character, irrespective of device [server, desktop, mob], OS [linux, win] or software application

- Ans
- 1. UNICODE
  - 2. Binary Code
  - 3. ISCII
  - 4. ASCII

Question ID : 630680598505  
Option 1 ID : 6306802341778  
Option 2 ID : 6306802341781  
Option 3 ID : 6306802341780  
Option 4 ID : 6306802341779

Q.13 ASCII (American Standard Code for Information Interchange) can only handle \_\_\_\_\_ or at most \_\_\_\_\_ languages and that shows its limitation to handle all world languages.

- Ans
- 1. 2, 5
  - 2. 1, 2
  - 3. 1, 5
  - 4. 3, 4

Question ID : 630680598508  
Option 1 ID : 6306802341793  
Option 2 ID : 6306802341790  
Option 3 ID : 6306802341792  
Option 4 ID : 6306802341791

Q.14 In Database Management System (DBMS), which of the following term defines a collection of entities that have the same attributes in the database?

- Ans
- 1. Entity type
  - 2. Value set
  - 3. Entity set
  - 4. Value type

Question ID : 630680598475  
Option 1 ID : 6306802341659  
Option 2 ID : 6306802341660  
Option 3 ID : 6306802341658  
Option 4 ID : 6306802341661

Q.15 Which symbol is used to add the comment in the code or program to make it more readable and understandable in Python programming language?

- Ans
- 1. #
  - 2. \*
  - 3. -
  - 4. :

Question ID : 630680598528  
Option 1 ID : 6306802341870  
Option 2 ID : 6306802341871  
Option 3 ID : 6306802341872  
Option 4 ID : 6306802341873

Q.16 Which of the following statement(s) is/are correct for context switching in Operating System?

- I. When a context switch occurs, the kernel saves the context of the old process in its PCB (Process Control Block).  
II. Context-Switch time is pure overhead, because the system does no useful work while switching.

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

Question ID : 630680598454  
Option 1 ID : 6306802341577  
Option 2 ID : 6306802341574  
Option 3 ID : 6306802341575  
Option 4 ID : 6306802341576

Q.17 Which of the following statement(s) is/are correct regarding AND logic gate?

- I. The AND gate produces the output value 1 if input A and input B are both equal to 1.  
II. The algebraic operation symbol of the AND function is the same as the multiplication symbol of ordinary arithmetic.

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

Question ID : 630680598442  
Option 1 ID : 6306802341529  
Option 2 ID : 6306802341526  
Option 3 ID : 6306802341528  
Option 4 ID : 6306802341527

Q.18 Which of the following term of ER model (Entity – Relationship) is corresponding to the foreign key (or relationship relation) in the relational model of database?

- Ans  1. Composite attribute  
 2. Entity type  
 3. 1 : 1 (one to one) or 1 : N (one to many) relationship type  
 4. M : N (many to many) relationship type

Question ID : 630680598477  
Option 1 ID : 6306802341669  
Option 2 ID : 6306802341667  
Option 3 ID : 6306802341668  
Option 4 ID : 6306802341666

Q.19 In relational databases, which of the following integrity constraint is specified between two relations and is used to maintain the consistency among tuples in the two relations?

- Ans
- 1. Entity integrity constraint
  - 2. Semantic integrity constraint
  - 3. Functional integrity constraint
  - 4. Referential integrity constraint

Question ID : 630680598476  
 Option 1 ID : 6306802341662  
 Option 2 ID : 6306802341664  
 Option 3 ID : 6306802341665  
 Option 4 ID : 6306802341663

Q.20 Match the following Process states of Operating System with their definitions.

	State		Definition
I	New	1	The process is waiting to be assigned to a processor
II	Running	2	Instructions are being executed
III	Ready	3	The process is being created

- Ans
- 1. I-3, II-1, III-2
  - 2. I-1, II-3, III-2
  - 3. I-1, II-2, III-3
  - 4. I-3, II-2, III-1

Question ID : 630680598453  
 Option 1 ID : 6306802341573  
 Option 2 ID : 6306802341570  
 Option 3 ID : 6306802341571  
 Option 4 ID : 6306802341572

Section : Discipline 5

Q.1 Which of the following operator is used as concatenation operator in SQL?

- Ans
- 1. ++
  - 2. ""
  - 3. ##
  - 4. ||

Question ID : 630680598494  
 Option 1 ID : 6306802341735  
 Option 2 ID : 6306802341737  
 Option 3 ID : 6306802341736  
 Option 4 ID : 6306802341734

Q.2 Which of the following statement is correct regarding unguided media (wireless)?  
I. Unguided media transport electromagnetic waves without using a physical conductor.  
II. Unguided signals can travel from the source to destination in ground propagation way.

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

Question ID : 630680598471  
Option 1 ID : 6306802341643  
Option 2 ID : 6306802341644  
Option 3 ID : 6306802341642  
Option 4 ID : 6306802341645

Q.3 Which of the following is correct formula for calculating wavelength ( $\lambda$ ) of a signal in the data communication?

- Ans  1.  $\lambda = \text{propagation speed} + \text{frequency}$   
 2.  $\lambda = \text{propagation speed} \times \text{period}$   
 3.  $\lambda = \text{propagation speed} + \text{period}$   
 4.  $\lambda = \text{propagation speed} \times \text{frequency}$

Question ID : 630680598473  
Option 1 ID : 6306802341652  
Option 2 ID : 6306802341651  
Option 3 ID : 6306802341653  
Option 4 ID : 6306802341650

Q.4 In periodic analog signals, which of the following is NOT a parameter to describe a sine wave in data communication?

- Ans  1. Wavelength  
 2. Phase  
 3. Frequency  
 4. Peak amplitude

Question ID : 630680598472  
Option 1 ID : 6306802341648  
Option 2 ID : 6306802341649  
Option 3 ID : 6306802341647  
Option 4 ID : 6306802341646

Q.5 Which of the following operator of SQL is used in WHERE clause for match a character pattern in database?

- Ans
- 1. LIKE
  - 2. IN
  - 3. IS NULL
  - 4. OR

Question ID : 630680598495  
Option 1 ID : 6306802341739  
Option 2 ID : 6306802341738  
Option 3 ID : 6306802341740  
Option 4 ID : 6306802341741

Q.6 In SQL, which of the following is correct command for schema evolution, if the RESTRICT option is chosen than the schema is dropped only if schema has no element in it?

- Ans
- 1. DELETE
  - 2. UPDATE
  - 3. ALTER
  - 4. DROP

Question ID : 630680598478  
Option 1 ID : 6306802341671  
Option 2 ID : 6306802341673  
Option 3 ID : 6306802341670  
Option 4 ID : 6306802341672

Q.7 \_\_\_\_\_ files are spreadsheet files in a text format of data when cell contents are separated by a character for example a comma or semi-colon.

- Ans
- 1. Comma-Separated- Values
  - 2. Semi-colon Separated Values
  - 3. Column and Row Headers
  - 4. CVS

Question ID : 630680598507  
Option 1 ID : 6306802341786  
Option 2 ID : 6306802341787  
Option 3 ID : 6306802341788  
Option 4 ID : 6306802341789

Q.8 Unicode in the programming language can be represented using which of the bit format standards in computer science?

- Ans
- 1. 8-bit
  - 2. 17-bit
  - 3. 65-bit
  - 4. 9-bit

Question ID : 630680598509  
Option 1 ID : 6306802341794  
Option 2 ID : 6306802341796  
Option 3 ID : 6306802341797  
Option 4 ID : 6306802341795

Q.9 Which of the following type of guided transmission media are categorized by their Radio Government (RG) ratings in computer networking?

- Ans
- 1. Fiber-Optic Cable
  - 2. Coaxial Cable
  - 3. Metallic Cable
  - 4. Twisted-Pair Cable

Question ID : 630680598470  
Option 1 ID : 6306802341639  
Option 2 ID : 6306802341640  
Option 3 ID : 6306802341641  
Option 4 ID : 6306802341638

Q.10 Which of the following system call include 'wait for time' operation command in Operating System?

- Ans
- 1. Process Control
  - 2. Device Management
  - 3. File Management
  - 4. Communications

Question ID : 630680598460  
Option 1 ID : 6306802341598  
Option 2 ID : 6306802341599  
Option 3 ID : 6306802341601  
Option 4 ID : 6306802341600

Section : Teaching Methodology

Q.1 Which of the following stage is used for child cognition development at the age from 2 years to 7 years?

- Ans
- 1. Sensori-motor
  - 2. Pre-operational
  - 3. Formal operational
  - 4. Concrete operational

Question ID : 630680598531  
Option 1 ID : 6306802341882  
Option 2 ID : 6306802341883  
Option 3 ID : 6306802341885  
Option 4 ID : 6306802341884

Q.2 The Government of India adopted the National Policy for Empowerment of Women in

- Ans  1. 2001  
 2. 2005  
 3. 2000  
 4. 2003

Question ID : 630680598534  
Option 1 ID : 6306802341895  
Option 2 ID : 6306802341897  
Option 3 ID : 6306802341894  
Option 4 ID : 6306802341896

Q.3 In which of the following approach Pedagogy indicate learning by doing based on engagement of students through different activities?

- I. Teacher centered approach  
II. Student centered approach

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

Question ID : 630680598535  
Option 1 ID : 6306802341900  
Option 2 ID : 6306802341898  
Option 3 ID : 6306802341901  
Option 4 ID : 6306802341899

Q.4 Which of the following approach of Assessment for Learning is the assessment of classmates on the response and performance of the learner?

- Ans  1. Teacher-led assessment  
 2. Learner self-assessment  
 3. Computer-based assessment  
 4. Peer assessment

Question ID : 630680598537  
Option 1 ID : 6306802341906  
Option 2 ID : 6306802341907  
Option 3 ID : 6306802341909  
Option 4 ID : 6306802341908

Q.5 Which of the following language was included through the 71st constitutional amendment (1992) in 8th schedule of the Indian Constitution?

- Ans  1. Bengali  
 2. Nepali  
 3. Boro  
 4. Gujarati

Question ID : 630680598532  
Option 1 ID : 6306802341889  
Option 2 ID : 6306802341888  
Option 3 ID : 6306802341887  
Option 4 ID : 6306802341886

Q.6 Art education is the area of learning that is based upon which of the following?

- I. The visual, tangible art
- II. The performing arts

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

Question ID : 630680598540  
Option 1 ID : 6306802341918  
Option 2 ID : 6306802341920  
Option 3 ID : 6306802341921  
Option 4 ID : 6306802341919

Q.7 In which of the following approach to learning and teaching, both the teacher and the students perform activities strictly confined to the prescribed contents/ textbooks in the subject being taught?

- Ans
- 1. Learner centered
  - 2. Teacher-centered
  - 3. Subject-centered
  - 4. Discipline centered

Question ID : 630680598533  
Option 1 ID : 6306802341893  
Option 2 ID : 6306802341891  
Option 3 ID : 6306802341890  
Option 4 ID : 6306802341892

Q.8 Piaget divided which of the following domain of development into four stages: The Sensorimotor Stage, The Pre-Operational Stage, Concrete Operational Stage and The Formal Operational Stage?

- Ans
- 1. Moral development
  - 2. Physical and motor development
  - 3. Cognitive development
  - 4. Socio-emotional development

Question ID : 630680598539  
Option 1 ID : 6306802341917  
Option 2 ID : 6306802341914  
Option 3 ID : 6306802341916  
Option 4 ID : 6306802341915

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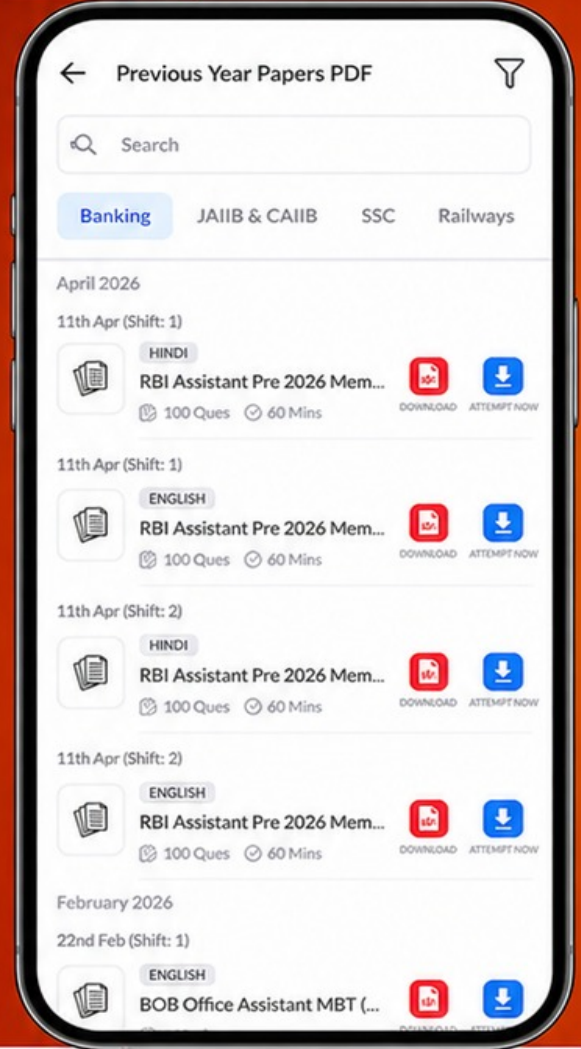
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Q.9 Match the following Classification Of Cognitive Disability (Mental Retardation) with their range of intelligence quotient (IQ).

	Severity Levels		Range of IQ
I	Profound Mentally Retarded	1	20-34
II	Mild Mentally Retarded	2	Below 20
III	Severe Mentally Retarded	3	50-75

Ans  1. I-2, II-3, III-1

2. I-1, II-3, III-2

3. I-3, II-2, III-1

4. I-2, II-1, III-3

Question ID : 630680598538

Option 1 ID : 6306802341910

Option 2 ID : 6306802341912

Option 3 ID : 6306802341911

Option 4 ID : 6306802341913

Q.10 In the types of Learning resources, the term \_\_\_\_\_ denotes a partially three-dimensional, full-size replica or scale model of a landscape typically showing historical events, nature scenes or cityscapes, for purposes of education or entertainment.

Ans  1. cartoons

2. Globes

3. realia

4. diorama

Question ID : 630680598536

Option 1 ID : 6306802341905

Option 2 ID : 6306802341903

Option 3 ID : 6306802341904

Option 4 ID : 6306802341902