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AE

Previous Year Paper
(Civil)
22 Jun, 2024 Shift 3

GOVT. OF NCT OF DELHI
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Participant ID	
Participant Name	
Test Center Name	
Test Date	22/06/2024
Test Time	4:30 PM - 6:30 PM
Subject	Assistant Engineer (Civil)

Section : **General intelligence and Reasoning Ability**

Q.1 Select the figure from the options that can replace the question mark (?) and complete the pattern.

Ans

✗ 1.

✗ 2.

✗ 3.

✔ 4.

Question ID : **63068057723**
Option 1 ID : **630680222730**
Option 2 ID : **630680222731**
Option 3 ID : **630680222733**
Option 4 ID : **630680222732**

Q.2 What should come in place of the question mark (?) in the given series?
2, 4, 10, 28, ?

Ans ✗ 1. 83

✓ 2. 82

✗ 3. 84

✗ 4. 80

Question ID : **63068083912**
Option 1 ID : **630680325240**
Option 2 ID : **630680325242**
Option 3 ID : **630680325241**
Option 4 ID : **630680325243**

Q.3 What should come in place of '?' in the given series?
326 330 338 350 366 ?

Ans ✓ 1. 386

✗ 2. 384

✗ 3. 382

✗ 4. 388

Question ID : **630680554470**
Option 1 ID : **6306802191178**
Option 2 ID : **6306802191177**
Option 3 ID : **6306802191176**
Option 4 ID : **6306802191179**

Q.4 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(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 /deleting /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.)
(96, 168, 77)
(39, 96, 62)

Ans ✓ 1. (113, 186, 78)

✗ 2. (78, 230, 147)

✗ 3. (121, 194, 75)

✗ 4. (87, 136, 49)

Question ID : **630680515935**
Option 1 ID : **6306802016148**
Option 2 ID : **6306802016147**
Option 3 ID : **6306802016146**
Option 4 ID : **6306802016145**

Q.5 'A + B' means 'A is the son of B'.
'A − B' means 'A is the sister of B'.
'A × B' means 'A is the wife of B'.
'A ÷ B' means 'A is the husband of B'.
If L − M + N × X + Y × Z, then which of the following statements is NOT correct?

Ans ✔ 1. Z is the sister of X.

✘ 2. M is son's son of Z.

✘ 3. Y is father's mother of L.

✘ 4. N is the mother of L.

Question ID : **630680519296**
Option 1 ID : **6306802029629**
Option 2 ID : **6306802029630**
Option 3 ID : **6306802029631**
Option 4 ID : **6306802029628**

Q.6 YV23 is related to TQ21 in a certain way. In the same way, OL29 is related to JG27. Which of the following is SP27 related to, following the same logic?

Ans ✘ 1. MJ29

✘ 2. MK24

✔ 3. NK25

✘ 4. NJ25

Question ID : **63068092758**
Option 1 ID : **630680359727**
Option 2 ID : **630680359728**
Option 3 ID : **630680359729**
Option 4 ID : **630680359730**

Q.7 Seven people, A, B, C, D, E, F and G are sitting in a straight row, facing north. Only 2 persons sit to the left of G. Only 2 people sit between A and F. A sits to the left of F. D sits to the immediate right of F. Only 1 person sits to the right of B. E is not an immediate neighbour of G. How many persons sit between D and C?

Ans ✘ 1. 3

✔ 2. 2

✘ 3. 4

✘ 4. 1

Question ID : **630680521276**
Option 1 ID : **6306802037531**
Option 2 ID : **6306802037530**
Option 3 ID : **6306802037532**
Option 4 ID : **6306802037529**

Q.8 A, R, Q, C and P live on five different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 5. R does not live in an even numbered floor and not on the topmost floor also. Only two people live between P and A. A lives on the topmost floor. P lives immediately below C. On which floor number does Q live?

Ans
✗ 1. 5

✗ 2. 2

✗ 3. 3

✔ 4. 4

Question ID : **630680545347**
Option 1 ID : **6306802132047**
Option 2 ID : **6306802132044**
Option 3 ID : **6306802132045**
Option 4 ID : **6306802132046**

Q.9 If '+' means 'subtraction', '–' means 'division', '÷' means 'multiplication' and '×' means 'addition', then what will come in place of the question mark (?) in the following equation?
$15 - 3 \times 3660 + 61 \div 6 = ?$

Ans
✗ 1. 3301

✔ 2. 3299

✗ 3. 3302

✗ 4. 3300

Question ID : **630680549820**
Option 1 ID : **6306802149661**
Option 2 ID : **6306802149662**
Option 3 ID : **6306802149660**
Option 4 ID : **6306802149663**

Q.10 This question is based on the five, three-digit numbers given below.

(Left) 784 498 761 173 650 (Right)
(Example: 697 – First digit = 6, second digit = 9 and third digit = 7)
NOTE - All operations to be done from left to right.

If 2 is added to the first digit of every number, in how many numbers will the first digit be exactly divisible by the second digit?

Ans
✗ 1. 3

✗ 2. 4

✗ 3. 1

✔ 4. 0

Question ID : **630680756556**
Option 1 ID : **6306802965201**
Option 2 ID : **6306802965203**
Option 3 ID : **6306802965200**
Option 4 ID : **6306802965202**

Q.11 Three of the following four word pairs are alike in a certain way and thus form a group. Which word pair does not belong to that group?

(The words must be considered as meaningful English words and must not be grouped based on the number of letters/number of consonants/vowels in the word.)

Ans ✗ 1. Water-drinking

✗ 2. Bed-sleeping

✗ 3. Food-eating

✔ 4. Juice-fruits

Question ID : **630680404826**
Option 1 ID : **6306801578795**
Option 2 ID : **6306801578797**
Option 3 ID : **6306801578796**
Option 4 ID : **6306801578798**

Q.12 Four pairs of letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different.

Ans ✗ 1. MSK :NUO

✗ 2. JGL : KIP

✔ 3. LVS :MXV

✗ 4. PTD : QVH

Question ID : **63068050423**
Option 1 ID : **630680194014**
Option 2 ID : **630680194015**
Option 3 ID : **630680194017**
Option 4 ID : **630680194016**

Q.13 Select the set in which the numbers are related in the same way as are the numbers of the given sets.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
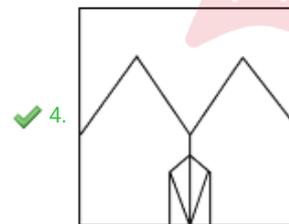
(10, 20, 150)
(14, 15, 145)
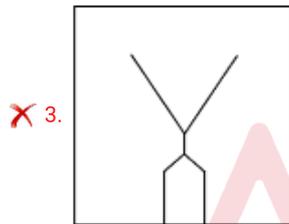
Ans ✗ 1. (14, 20, 165)

✗ 2. (8, 17, 120)

✔ 3. (7, 19, 130)

✗ 4. (12, 16, 150)

Question ID : **630680451962**
Option 1 ID : **6306801764924**
Option 2 ID : **6306801764923**
Option 3 ID : **6306801764922**
Option 4 ID : **6306801764925**

Q.14 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

M

N

Ans

✗ 1.

✗ 2.

✗ 3.

✔ 4.
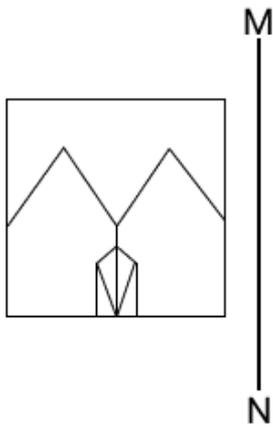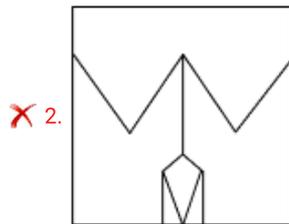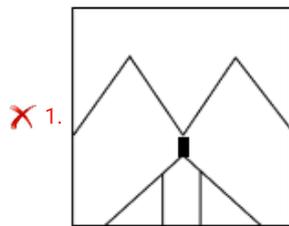
Question ID : **630680561117**
Option 1 ID : **6306802195405**
Option 2 ID : **6306802195408**
Option 3 ID : **6306802195406**
Option 4 ID : **6306802195407**

Q.15 EGJK is related to PRUV in a certain way based on the English alphabetical order. In the same way, IKNO is related to TVYZ. To which of the following is BDGH related, following the same logic?

Ans ✗ 1. MPQS

✓ 2. MORS

✗ 3. MOQR

✗ 4. NPQS

Question ID : **63068083541**
Option 1 ID : **630680323868**
Option 2 ID : **630680323869**
Option 3 ID : **630680323871**
Option 4 ID : **630680323870**

Q.16 What will come in place of the question mark (?) in the following equation if '+' and '−' are interchanged and '×' and '÷' are interchanged?
$7 ÷ 3 + 2 − 10 × 2 = ?$

Ans ✗ 1. 12

✓ 2. 24

✗ 3. 32

✗ 4. 10

Question ID : **630680374624**
Option 1 ID : **6306801459663**
Option 2 ID : **6306801459664**
Option 3 ID : **6306801459665**
Option 4 ID : **6306801459666**

Q.17 Each of the digits in the number 2456978 are arranged in the descending order from left to right. What will be the sum of the digits which are second from the left and third from the right in the new number thus formed?

Ans ✗ 1. 5

✗ 2. 12

✓ 3. 13

✗ 4. 14

Question ID : **63068083743**
Option 1 ID : **630680324591**
Option 2 ID : **630680324588**
Option 3 ID : **630680324590**
Option 4 ID : **630680324589**

Q.18 Read the question given below and select the statement from the options which is additionally required to establish the relationship given at the end of the question.
Statement: Abby is the husband of Bala and Chan is Abby's son. Dev and Emma are the children of Fanny. Fanny is Abby's daughter-in-law.
Relationship to be established: Chan is the husband of Fanny.

Ans ✗ 1. Dev is Emma's brother

✗ 2. Emma is not a boy

✗ 3. No additional information is needed

✓ 4. Chan has no siblings

Question ID : **630680296728**
Option 1 ID : **6306801154563**
Option 2 ID : **6306801154565**
Option 3 ID : **6306801154566**
Option 4 ID : **6306801154564**

Q.19 Read the following words and answer the question that follows.
DOT BIN FAN PEN RAT
If 'B' is added before each word, which of the following will form a meaningful English word?

Ans ✓ 1. RAT

✗ 2. PEN

✗ 3. FAN

✗ 4. BIN

Question ID : **630680379297**
Option 1 ID : **6306801478231**
Option 2 ID : **6306801478232**
Option 3 ID : **6306801478233**
Option 4 ID : **6306801478234**

Q.20 69 is related to 24 following a certain logic. Following the same logic, 78 is related to 27. To which ofthe following is 93 related, following the same logic?
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their 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.)

Ans ✗ 1. 29

✓ 2. 32

✗ 3. 34

✗ 4. 36

Question ID : **630680454478**
Option 1 ID : **6306801774829**
Option 2 ID : **6306801774827**
Option 3 ID : **6306801774826**
Option 4 ID : **6306801774828**

Section : **General Awareness**

Q.1 Identify the vitamin that is also recognised as a hormone.

Ans
- ✗ 1. Vitamin B6
- ✓ 2. Vitamin D
- ✗ 3. Vitamin B12
- ✗ 4. Vitamin C

Question ID : **630680270147**
Option 1 ID : **6306801049840**
Option 2 ID : **6306801049839**
Option 3 ID : **6306801049842**
Option 4 ID : **6306801049841**

Q.2 न्यायपालिका के संबंध में निम्नलिखित में से कौन-सा कथन असत्य है?

Ans
- ✗ 1. सर्वोच्च न्यायालय के न्यायाधीश राष्ट्रपति के समक्ष शपथ लेंगे
- ✗ 2. विधि द्वारा संसद किसी न्यायाधीश के दुर्व्यवहार की जाँच की प्रक्रिया को विनियमित करती है
- ✗ 3. सर्वोच्च न्यायालय के किसी न्यायाधीश को राष्ट्रपति के आदेश के अलावा पद से नहीं हटाया जा सकता है
- ✓ 4. सर्वोच्च न्यायालय में न्यायाधीश का पद संभालने वाला व्यक्ति भारतीय क्षेत्र के भीतर किसी अन्य न्यायालय में वकालत या कार्य कर सकता है

Question ID : **630680305035**
Option 1 ID : **6306801186685**
Option 2 ID : **6306801186686**
Option 3 ID : **6306801186688**
Option 4 ID : **6306801186687**

Q.3 The Census in India classifies the population into how many broad age groups?

Ans
- ✓ 1. Three
- ✗ 2. Nine
- ✗ 3. Seven
- ✗ 4. Five

Question ID : **630680350912**
Option 1 ID : **6306801365937**
Option 2 ID : **6306801365940**
Option 3 ID : **6306801365939**
Option 4 ID : **6306801365938**

Q.4 Consider the following types of income.
1. Personal income
2. Private income
3. Disposable income
4. National income
The correct sequence in the descending order of their magnitude is:

Ans ✗ 1. 4, 2, 3, 1

✓ 2. 4, 2, 1, 3

✗ 3. 2, 4, 3, 1

✗ 4. 2, 4, 1, 3

Question ID : **630680323662**
Option 1 ID : **6306801259150**
Option 2 ID : **6306801259149**
Option 3 ID : **6306801259151**
Option 4 ID : **6306801259152**

Q.5 Profits are used as a source of data in which method of the estimation of Gross Domestic Product?

Ans ✗ 1. Value added method

✓ 2. Income method

✗ 3. Expenditure method

✗ 4. Product method

Question ID : **630680422528**
Option 1 ID : **6306801648551**
Option 2 ID : **6306801648549**
Option 3 ID : **6306801648548**
Option 4 ID : **6306801648550**

Q.6 In which sectors did the Bihar Government announce 10% reservations for people under the Economically Weaker Section (EWS) on 2 October 2023?

Ans ✗ 1. Agriculture and Transportation

✓ 2. Judicial Services and Law Colleges

✗ 3. Government Jobs and Infrastructure

✗ 4. Health and Education

Question ID : **630680780440**
Option 1 ID : **6306803058853**
Option 2 ID : **6306803058852**
Option 3 ID : **6306803058854**
Option 4 ID : **6306803058851**

Q.7 Which of the following parties fought the third Battle of Panipat?

Ans ✗ 1. Marathas, against the Turk, Ulugh Beg

✓ 2. Marathas, against Afghan Ahmad Shah Durrani and his allies

✗ 3. Marathas, against the Rajputs

✗ 4. Marathas, against the Uzbek, Ulugh Beg

Question ID : 630680147259
Option 1 ID : 630680569829
Option 2 ID : 630680569827
Option 3 ID : 630680569826
Option 4 ID : 630680569828

Q.8 In which of the following cities is the Central Institute of Indian Languages, which works for promotion of Indian languages, located?

Ans ✗ 1. Hyderabad

✗ 2. Pune

✗ 3. Chandigarh

✓ 4. Mysore

Question ID : 63068091350
Option 1 ID : 630680354137
Option 2 ID : 630680354136
Option 3 ID : 630680354135
Option 4 ID : 630680354134

Q.9 Which of the following Union Territories was under the French rule for 138 years?

Ans ✗ 1. Lakshadweep

✗ 2. Andaman and Nicobar Islands

✗ 3. Dadra and Nagar Haveli

✓ 4. Puducherry

Question ID : 63068099123
Option 1 ID : 630680385197
Option 2 ID : 630680385198
Option 3 ID : 630680385196
Option 4 ID : 630680385199

Q.10 Which variety of wheat was used as a donor to make it high in protein?

Ans ✓ 1. Atlas 66

✗ 2. Pusa A-4

✗ 3. Kalyan Sona

✗ 4. Himgiri

Question ID : 63068049636
Option 1 ID : 630680190974
Option 2 ID : 630680190975
Option 3 ID : 630680190977
Option 4 ID : 630680190976

Q.11 In which of the following states was the famous Chipko movement initiated to save forests?

Ans
- ✗ 1. Bihar
- ✗ 2. Himachal Pradesh
- ✗ 3. Sikkim
- ✓ 4. Uttarakhand (then Uttar Pradesh)

Question ID : **630680511220**
Option 1 ID : **6306801998011**
Option 2 ID : **6306801998012**
Option 3 ID : **6306801998013**
Option 4 ID : **6306801998010**

Q.12 Who established Mitra Mela, a revolutionary association?

Ans
- ✗ 1. Lala Hardayal
- ✓ 2. Vinayak Savarkar
- ✗ 3. Shyamji Krishna Varma
- ✗ 4. Mahendra Pratap

Question ID : **630680309334**
Option 1 ID : **6306801203496**
Option 2 ID : **6306801203494**
Option 3 ID : **6306801203493**
Option 4 ID : **6306801203495**

Q.13 The concept of Republic in the Indian Constitution has been borrowed from _____.

Ans
- ✓ 1. France
- ✗ 2. Germany
- ✗ 3. Britain
- ✗ 4. South Africa

Question ID : **630680547996**
Option 1 ID : **6306802142532**
Option 2 ID : **6306802142531**
Option 3 ID : **6306802142533**
Option 4 ID : **6306802142534**

Q.14 Who among the following was associated with the 'Servants of India Society'?

Ans
- ✗ 1. Subhash Chandra Bose
- ✓ 2. Gopal Krishna Gokhale
- ✗ 3. Sardar Patel
- ✗ 4. Motilal Nehru

Question ID : **630680306335**
Option 1 ID : **6306801191696**
Option 2 ID : **6306801191694**
Option 3 ID : **6306801191693**
Option 4 ID : **6306801191695**

Q.15 Who amongst the following set an Asian Games record in the men's 3000 m steeplechase in 2023?

Ans ✖ 1. Neeraj Chopra

✖ 2. Jora Singh

✔ 3. Avinash Sable

✖ 4. Amit Khatri

Question ID : **630680780425**
Option 1 ID : **6306803058792**
Option 2 ID : **6306803058793**
Option 3 ID : **6306803058791**
Option 4 ID : **6306803058794**

Q.16 मनरेगा से निम्नलिखित में से किस वर्ग की जनसंख्या को लाभ मिलता है?

Ans ✖ 1. स्वयं-सहायता समूह

✖ 2. दैनिक वेतन प्राप्त करने वाले श्रमिक

✔ 3. बेरोजगार वयस्क

✖ 4. निम्न आय वाले परिवार

Question ID : **630680639141**
Option 1 ID : **6306802502299**
Option 2 ID : **6306802502298**
Option 3 ID : **6306802502297**
Option 4 ID : **6306802502300**

Q.17 Which of the following two Indian tennis legends became the first Asian men to be inducted into the International Tennis Hall of Fame on 12 December 2023?

Ans ✔ 1. Vijay Amritraj and Leander Paes

✖ 2. Mahesh Bhupathi and Rohan Bopanna

✖ 3. Leander Paes and Sania Mirza

✖ 4. Ramanathan Krishnan and Rohan Bopanna

Question ID : **630680780426**
Option 1 ID : **6306803058797**
Option 2 ID : **6306803058795**
Option 3 ID : **6306803058796**
Option 4 ID : **6306803058798**

Q.18 In which of the following states the Thar Desert does NOT extend?

Ans ✖ 1. Punjab

✔ 2. Madhya Pradesh

✖ 3. Rajasthan

✖ 4. Gujarat

Question ID : **63068090214**
Option 1 ID : **630680349631**
Option 2 ID : **630680349633**
Option 3 ID : **630680349630**
Option 4 ID : **630680349632**

Q.19 Ker and Garia are the traditional tribal festivals of which Indian state?

Ans ✗ 1. Haryana

✗ 2. Punjab

✓ 3. Tripura

✗ 4. Uttar Pradesh

Question ID : **630680311838**
Option 1 ID : **6306801213426**
Option 2 ID : **6306801213425**
Option 3 ID : **6306801213427**
Option 4 ID : **6306801213428**

Q.20 निम्नलिखित में से कौन गाथासप्तशती के लेखक हैं?

Ans ✗ 1. दण्डी

✓ 2. हाल

✗ 3. जयदेव

✗ 4. श्री हर्ष

Question ID : **630680157740**
Option 1 ID : **630680610489**
Option 2 ID : **630680610490**
Option 3 ID : **630680610491**
Option 4 ID : **630680610488**

Section : **Arithmetical and Numerical Ability**

Q.1 The incomes of A and B are in the ratio of 7 : 5 and their expenditure are in ratio of 4 : 3. If they are saving ₹2,000 and ₹1,000, respectively, what is their average income (in₹)?

Ans ✓ 1. 12000

✗ 2. 14000

✗ 3. 2000

✗ 4. 10000

Question ID : **630680166112**
Option 1 ID : **630680643423**
Option 2 ID : **630680643421**
Option 3 ID : **630680643420**
Option 4 ID : **630680643422**

Q.2 Pipe A alone can fill a tank in 10 hours, while pipe B alone can fill it in 20 hours, and pipe C alone can empty the full tank in 60 hours. If all the pipes are opened together, how much time will be needed to make the tank full?

Ans

✗ 1. $6\frac{1}{2}$ hours

✔ 2. $7\frac{1}{2}$ hours

✗ 3. $8\frac{1}{2}$ hours

✗ 4. $9\frac{1}{2}$ hours

Question ID : **630680177667**
Option 1 ID : **630680688829**
Option 2 ID : **630680688831**
Option 3 ID : **630680688828**
Option 4 ID : **630680688830**

Q.3 If the radius of a hemisphere is increased by 3 cm and its curved surface area increased by 396 cm², then the radius of hemisphere after increase is equal to:

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

Ans

✗ 1. 14 cm

✗ 2. 16 cm

✔ 3. 12 cm

✗ 4. 10 cm

Question ID : **630680373903**
Option 1 ID : **6306801456884**
Option 2 ID : **6306801456883**
Option 3 ID : **6306801456885**
Option 4 ID : **6306801456886**

Q.4 The HCF of two numbers is 13, and their sum is 182. If both the numbers are greater than 50, then the difference between the two numbers is:

Ans

✗ 1. 13

✔ 2. 52

✗ 3. 39

✗ 4. 26

Question ID : **630680468455**
Option 1 ID : **6306801829618**
Option 2 ID : **6306801829621**
Option 3 ID : **6306801829620**
Option 4 ID : **6306801829619**

Q.5 Find the surface area of a cuboid 20 m long, 5 m broad and 4 m high.

Ans ✔ 1. 400 m^2

✘ 2. 100 m^2

✘ 3. 240 m^2

✘ 4. 200 m^2

Question ID : **63068070474**
Option 1 ID : **630680272524**
Option 2 ID : **630680272523**
Option 3 ID : **630680272522**
Option 4 ID : **630680272525**

Q.6 In a group of students, the ratio of students appearing for two different examinations A and B is 7 : 15. What is the difference in the percentages of the students appearing for two examinations? (round up to two decimal places)

Ans ✔ 1. 36.36%

✘ 2. 42.49%

✘ 3. 24.24%

✘ 4. 55.35%

Question ID : **630680550829**
Option 1 ID : **6306802153560**
Option 2 ID : **6306802153559**
Option 3 ID : **6306802153557**
Option 4 ID : **6306802153558**

Q.7 The base of a right prism is a right-angled triangle whose sides are 7 cm, 24 cm and 25 cm. If the total surface area of the prism is 756 cm^2, then the volume of the prism is equal to:

Ans ✔ 1. 882 cm^3

✘ 2. 1002 cm^3

✘ 3. 1004 cm^3

✘ 4. 1006 cm^3

Question ID : **630680395268**
Option 1 ID : **6306801541280**
Option 2 ID : **6306801541281**
Option 3 ID : **6306801541283**
Option 4 ID : **6306801541282**

Q.8 Study the given chart and answer the question that follows.
The following pie chart shows the expenditure of a family in percentage. The total monthly income is ₹46,500.

Expenditure
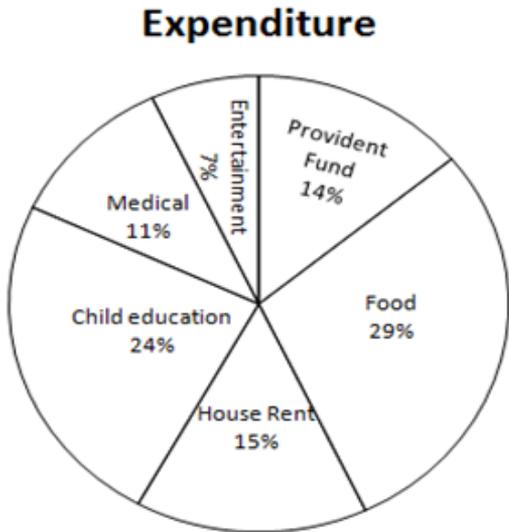
After the deduction of Child education and Food, what is the total income that remains?

Ans ✗ 1. ₹24,855

✔ 2. ₹21,855

✗ 3. ₹22,855

✗ 4. ₹23,855

Question ID : **630680373096**
Option 1 ID : **6306801453658**
Option 2 ID : **6306801453655**
Option 3 ID : **6306801453656**
Option 4 ID : **6306801453657**

Q.9 What is the vulgar fraction corresponding to the mixed recurring decimal number $0.4\overline{7}$?

Ans ✗ 1. $\dfrac{47}{90}$

✗ 2. $\dfrac{43}{95}$

✗ 3. $\dfrac{47}{95}$

✔ 4. $\dfrac{43}{90}$

Question ID : **630680524120**
Option 1 ID : **6306802048631**
Option 2 ID : **6306802048634**
Option 3 ID : **6306802048632**
Option 4 ID : **6306802048633**

Q.10 The average of three numbers is 20. If two numbers are 16 and 24, the third number is:

Ans ✗ 1. 19

 ✗ 2. 22

 ✗ 3. 21

 ✔ 4. 20

Question ID : 630680552120
Option 1 ID : 6306802158706
Option 2 ID : 6306802158708
Option 3 ID : 6306802158707
Option 4 ID : 6306802158705

Q.11 At what rate (in percentage) per year will a sum of money 4 times itself in 25 years on simple interest?

Ans ✗ 1. 24

 ✔ 2. 12

 ✗ 3. 14

 ✗ 4. 10

Question ID : 630680612313
Option 1 ID : 6306802395985
Option 2 ID : 6306802395984
Option 3 ID : 6306802395987
Option 4 ID : 6306802395986

Q.12 Swarnima sold an electric dry iron to Bhushan at a profit of 10%, Bhushan sold it to Ankit at a loss of 5%. If Swarnima bought the electric dry iron for ₹800, then what is the cost price (in ₹) of electric dry iron for Ankit?

Ans ✗ 1. 880

 ✔ 2. 836

 ✗ 3. 856

 ✗ 4. 840

Question ID : 630680817911
Option 1 ID : 6306803203758
Option 2 ID : 6306803203761
Option 3 ID : 6306803203759
Option 4 ID : 6306803203760

Q.13 The marked price of an item is $\frac{6}{5}$ times of the cost price. How much discount in percentage on the marked price is to be offered to have 5% profit?

Ans ✔ 1. 12.5%

 ✗ 2. 10%

 ✗ 3. 12%

 ✗ 4. 10.5%

Question ID : 630680227064
Option 1 ID : 630680880949
Option 2 ID : 630680880948
Option 3 ID : 630680880950
Option 4 ID : 630680880947

Q.14 A train runs from New Delhi to Ahmedabad at an average speed of 100 km/hr and returns at an average speed of 150 km/hr. The average speed (in km/hr) of the train in the whole journey is:
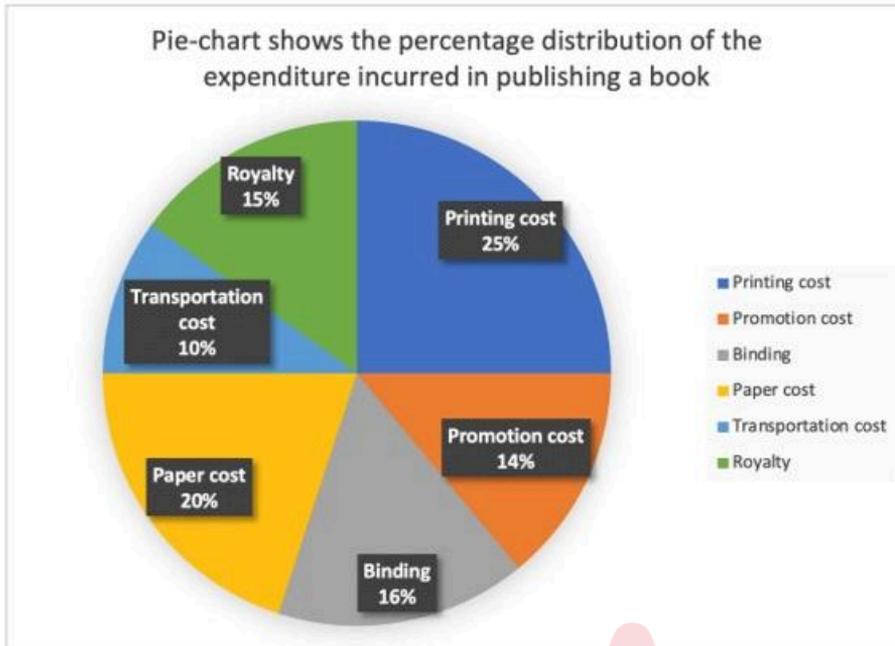
Ans ✗ 1. 135

✗ 2. 140

✔ 3. 120

✗ 4. 125

Question ID : **630680488397**
Option 1 ID : **6306801907634**
Option 2 ID : **6306801907633**
Option 3 ID : **6306801907631**
Option 4 ID : **6306801907632**

Q.15 Tanisha, Yuvi and Harsh invested capital in the ratio of 5 : 4 : 6. The time of their investments were in the ratio 3 : 5 : 2. Find the share of Harsh if the term end profit is ₹2,63,200.

Ans ✔ 1.   ₹67,200

✗ 2.   ₹60,000

✗ 3.   ₹65,800

✗ 4.   ₹56,488

Question ID : **630680517111**
Option 1 ID : **6306802020842**
Option 2 ID : **6306802020843**
Option 3 ID : **6306802020841**
Option 4 ID : **6306802020840**

Q.16 The following pie-chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie-chart and the answer the questions based on it. The total cost for publishing a book is ₹1,75,000.

Pie-chart shows the percentage distribution of the expenditure incurred in publishing a book

Royalty 15%

Printing cost 25%

Transportation cost 10%

Paper cost 20%

Promotion cost 14%

Binding 16%

- Printing cost
- Promotion cost
- Binding
- Paper cost
- Transportation cost
- Royalty

What is the difference (in ₹) between the combined cost of printing, transportation and paper and the combined cost of one-third of promotion and binding?

Ans
✗ 1. 61,250

✗ 2. 55,250

✗ 3. 66,850

✓ 4. 78,750

Question ID : **630680542583**
Option 1 ID : **6306802125183**
Option 2 ID : **6306802125182**
Option 3 ID : **6306802125184**
Option 4 ID : **6306802125181**

Q.17 Namratha's parents would like to have ₹2,20,500 when they retire in 2 years. How much should they invest today, at an interest rate of 5% per annum, compounded annually?

Ans
✗ 1. ₹1,98,000

✗ 2. ₹2,05,000

✓ 3. ₹2,00,000

✗ 4. ₹1,95,000

Question ID : **630680524203**
Option 1 ID : **6306802048964**
Option 2 ID : **6306802048965**
Option 3 ID : **6306802048966**
Option 4 ID : **6306802048963**

Q.18 A man earns a profit of 36% in his business in 2012 and in the following year his profits increase by 45%. What is the net percentage (rounded off to the nearest integer) increase in his profits in the two years?

Ans ✗ 1. 87%

✔ 2. 97%

✗ 3. 81%

✗ 4. 95%

Question ID : **630680447266**
Option 1 ID : **6306801746319**
Option 2 ID : **6306801746320**
Option 3 ID : **6306801746317**
Option 4 ID : **6306801746318**

Q.19 The maximum number of students in a school among whom 1517 books and 902 pens can be distributed in such a way that each student gets equal number of books and equal number of pens is:

Ans ✗ 1. 90

✗ 2. 168

✗ 3. 22

✔ 4. 41

Question ID : **63068084232**
Option 1 ID : **630680326459**
Option 2 ID : **630680326458**
Option 3 ID : **630680326457**
Option 4 ID : **630680326456**

Q.20 A cyclist covers a distance of 2.5 km in 4 minutes 10 seconds. How long will he take to cover a distance of 6 km at the same speed?

Ans ✗ 1. 9 minutes

✗ 2. 12 minutes

✗ 3. 11 minutes

✔ 4. 10 minutes

Question ID : **630680206527**
Option 1 ID : **630680800717**
Option 2 ID : **630680800718**
Option 3 ID : **630680800715**
Option 4 ID : **630680800716**

Section : **English Language and Comprehension**

Q.1 Select the most appropriate option to fill in the blank.

_____ earth is not flat as was supposed in the past.

Ans ✗ 1. A

✗ 2. These

✗ 3. An

✓ 4. The

Question ID : **63068068178**
Option 1 ID : **630680263427**
Option 2 ID : **630680263429**
Option 3 ID : **630680263428**
Option 4 ID : **630680263426**

Q.2 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A.Angela Lansbury was a boundlessly versatile performer, with a decades-long career.
B.She was also a winsome tavern singer in 'The Picture of Dorian Gray ', earning an Oscar nomination.
C.She was a chilling villain in 'The Manchurian Candidate', an accomplice to the psychological torment of 'Gaslight'.
D.It was filled with roles that played to her many strengths and excellent roles.

Ans ✗ 1. DACB

✓ 2. ADCB

✗ 3. ABDC

✗ 4. ABCD

Question ID : **630680147453**
Option 1 ID : **630680570597**
Option 2 ID : **630680570596**
Option 3 ID : **630680570595**
Option 4 ID : **630680570594**

Q.3 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A. There has been a surge in sales at every stall.
B. Spike in fever cases has led to an increase in the demand for tender coconut.
C. Tender coconut business is more lucrative near hospitals as fever cases are rising and doctors advise patients to consume more tender coconut water.
D. With the demand increasing, the sellers have also increased the price.

Ans ✗ 1. ABCD

✗ 2. ADBC

✓ 3. BACD

✗ 4. DCBA

Question ID : **630680204399**
Option 1 ID : **630680792681**
Option 2 ID : **630680792682**
Option 3 ID : **630680792680**
Option 4 ID : **630680792679**

Q.4 **Select the most appropriate adjective to fill in the blank.**
He tackles the problems with _____ success than I do.

Ans ✗ 1. plentiful

✓ 2. greater

✗ 3. topmost

✗ 4. greatest

Question ID : **630680144491**
Option 1 ID : **630680559032**
Option 2 ID : **630680559031**
Option 3 ID : **630680559033**
Option 4 ID : **630680559030**

Q.5 **Select the most appropriate preposition to fill in the blank.**

Tina has known Rahul _____ she was a baby girl.

Ans ✓ 1. since

✗ 2. after

✗ 3. for

✗ 4. as

Question ID : **630680291827**
Option 1 ID : **6306801135189**
Option 2 ID : **6306801135191**
Option 3 ID : **6306801135188**
Option 4 ID : **6306801135190**

Q.6 **Select the most appropriate adjective to fill in the blank.**
The _____ thing of all was that she lost her hall ticket on her examination day.

Ans ✓ 1. worst

✗ 2. bad

✗ 3. worse

✗ 4. baddest

Question ID : **630680144492**
Option 1 ID : **630680559036**
Option 2 ID : **630680559034**
Option 3 ID : **630680559035**
Option 4 ID : **630680559037**

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

A. This year, the American Library Association's annual Banned Books Week arrived in the midst of a renewed push to limit the literature children can access.
B. Schools and libraries around the country have dealt with attempts to ban and remove hundreds of titles.
C. Many of them grapple with issues of sex, race and gender, in the name of protecting young people from supposedly sensitive subject matter.
D. And while notoriety has the potential to boost a book's public profile, in most cases, suppressed titles disappear, leaving authors with fewer sales.

Ans ✗ 1. CABD

✗ 2. BCAD

✔ 3. ABCD

✗ 4. BDCA

Question ID : **630680147454**
Option 1 ID : **630680570601**
Option 2 ID : **630680570599**
Option 3 ID : **630680570598**
Option 4 ID : **630680570600**

Q.8 Select the most appropriate option to fill in the blank.
I have forgotten most of _____ French I learnt at school.

Ans ✗ 1. an

✗ 2. a

✗ 3. than

✔ 4. the

Question ID : **630680309959**
Option 1 ID : **6306801205984**
Option 2 ID : **6306801205983**
Option 3 ID : **6306801205982**
Option 4 ID : **6306801205981**

Q.9 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
1. The reef is not only a natural wonder but also an important economic resource, supporting industries such as tourism and fishing.
2. Located off the coast of Australia, it is home to a diverse range of marine species, including over 1,500 fish species and 600 types of coral.
3. The Great Barrier Reef is the world's largest coral reef system, spanning over 2,300 kilometers.
4. However, the reef is threatened by climate change, pollution, and overfishing, making conservation efforts crucial for its survival.

Ans ✔ 1. 3214

✗ 2. 3421

✗ 3. 1342

✗ 4. 2314

Question ID : **630680204368**
Option 1 ID : **630680792555**
Option 2 ID : **630680792558**
Option 3 ID : **630680792557**
Option 4 ID : **630680792556**

Q.10 Select the most appropriate ANTONYM of the underlined word.

We plodded through mud that came up past our ankles.

Ans ✗ 1. Worked

✔ 2. Breezed

✗ 3. Dug

✗ 4. Applied

Question ID : **63068087151**
Option 1 ID : **630680337994**
Option 2 ID : **630680337995**
Option 3 ID : **630680337993**
Option 4 ID : **630680337996**

Q.11 Select the option with the correct spelling to substitute the underlined word in the given sentence.
The hierrarchy in this organisation needs to be applauded.

Ans ✗ 1. hierarcy

✗ 2. hierarrchy

✗ 3. hiierarchy

✔ 4. hierarchy

Question ID : **630680517553**
Option 1 ID : **6306802022611**
Option 2 ID : **6306802022608**
Option 3 ID : **6306802022610**
Option 4 ID : **6306802022609**

Q.12 Select the INCORRECTLY spelt word.

Ans ✗ 1. Necessary

✔ 2. Disccussion

✗ 3. Relevant

✗ 4. Definitely

Question ID : **630680396865**
Option 1 ID : **6306801547531**
Option 2 ID : **6306801547530**
Option 3 ID : **6306801547529**
Option 4 ID : **6306801547528**

Q.13 Select the most appropriate ANTONYM of the word 'Rustic' from the given sentence.

I like the pastoral and floral idea of decoration for my sister's wedding and my sister wants a fancy yet simple one.

Ans ✔ 1. Fancy

✘ 2. Pastoral

✘ 3. Simple

✘ 4. Floral

Question ID : **630680550382**
Option 1 ID : **6306802151801**
Option 2 ID : **6306802151799**
Option 3 ID : **6306802151802**
Option 4 ID : **6306802151800**

Q.14 Select the most appropriate meaning of the given proverb
Great minds think alike

Ans ✘ 1. Thinkers always think in a similar way.

✔ 2. Positive and great thinkers share similar views.

✘ 3. Scientists think alike.

✘ 4. Great and famous people think in a similar way.

Question ID : **630680112726**
Option 1 ID : **630680436600**
Option 2 ID : **630680436601**
Option 3 ID : **630680436598**
Option 4 ID : **630680436599**

Q.15 Select the most appropriate meaning of the given proverb.
The early bird gets the worm.

Ans ✘ 1. The bird who wakes up early enjoys the sunlight.

✔ 2. One who arrives first gets a better chance for success.

✘ 3. The bird who works early remains healthy.

✘ 4. One who works hard enjoys the warmth of success.

Question ID : **630680135047**
Option 1 ID : **630680522987**
Option 2 ID : **630680522988**
Option 3 ID : **630680522986**
Option 4 ID : **630680522989**

Comprehension:

Read the given passage and answer the questions that follow.

A social disease that persists from generation to generation is prejudice. The Latin word prejudium, which implies prejudging, is the source of the English word prejudice. It is making a judgement or developing an attitude or belief in advance. It is an assessment made prior to coming into touch with the stimulus or object upon which the assessment is based. A bias is a collection of stereotypes, myths, and legends that employ a group label or symbol to categorise, describe or define an individual or a group taken as a whole.

Thus, one is influenced by the actions, viewpoints, preconceptions, and of course, prejudices of the group when creating a prejudice. Prejudice is a bias that is typically regarded to be a negative attitude towards people, objects, organisations, nations, and nationalities. It is created either to serve the interest of the group or the individual interest. Some people believe that bias is a bad attitude. However, this is incorrect. Both positive and negative attitudes toward a member of a certain social group are referred to as prejudice. Contrarily, discrimination describes unfavourable behaviours taken against particular social groupings, individuals, or institutions. Bias results from the oversimplification of social experiences, which is, what causes prejudice. A member of a particular community mistreats you while you're on a train. All of a sudden, you start to feel resentful of them. We tend to jump to conclusions when it comes to other people, despite the advice of academics, social reformers, social scientists, and every rational person for that matter. We make snap decisions about them, especially the outgroups.

Prejudices are unfounded, unscientific judgments that assume people have specific characteristics and take them for granted. Instead, we anticipate that they will behave in certain ways only by virtue of their membership in particular groups. This particular propensity is crucial to understanding how prejudice and discrimination work. Here, we make judgments before even making physical contact. The way the characters are shown makes it impossible for us to judge them objectively. Prejudice is described by Baron and Byrne (1988) as a particular attitude in which individual characteristics and behaviour are largely irrelevant. They are loved or despised merely by virtue of being a member of a recognised and distinct social group.

Group prejudice, according to Sherif and Sherif (1969), is defined as members' negative views toward members of the outgroup that are a result of their group's norms. Because of the parents' ingrained preconceptions that have been passed down through the generations, the child is influenced by them and grows up with them. Prejudices lack a scientific nature and they are irrational and prejudiced. Creator has modified Stem instructions yet mentions 'defend' and 'no changes required'!!! accept changes and save the item

The forces of good and evil are represented by our in-group and them as the out-group, respectively, in the drama of real life. Who is who depends on which group you belong to. We are the selected, the people of wonderful destiny, and the protectors of our lives, whereas they are the forces of destruction, the inferior people, and the undeserving. Therefore, prejudice is always shown by the 'ingroup' toward the 'outgroup'.

Prejudice, according to Fieldman (1985), is a judgement of a group's members that is made primarily based on the fact that they belong to that group rather than necessarily because of specific traits of any given member. Prejudice against women arises because they are women, not because of any unique or particular traits or attributes that they possess. Although prejudice is typically thought of as a bad thing, Fieldman contends that it can also be a good one. People may not like the members of the outgroup, but they may favourably assess those who belong to their own group, the 'ingroup', solely on the basis of that membership. As a result, prejudice is a form of bias and unfounded prejudgment that can be both positive and negative. In both instances, the bias or judgement is not based on the characteristics of a specific person, but rather on the group to which the person belongs. According to Allport, prejudice is a negative attitude held toward people because they are members of, or have been suppressed from being members of, particular groups.

Prejudice, in the words of Kretch and Crutchfield, is defined as an attitude or belief that helps to favour or disadvantage the subject of the attitude or belief. Even within the same nation or race, there are substantial differences in people's prejudices in terms of their clarity, specificity, strength, relevance, and verifiability in addition to their content. There are several types of prejudice. There may not necessarily be an active violent component to prejudice. Prejudice frequently merely entails the prejudiced person avoiding the outgroup.

SubQuestion No : 16

Q.16 Why has prejudice been designated as 'A Social Disease'?

Ans ✗ 1. It creates a negative attitude towards every individual.

✗ 2. It is passed on from generation to generation without any break.

✗ 3. It reflects the biases of people towards differences of opinion.

✓ 4. It divides individuals into ingroups and create a resistance and biases towards outgroups.

Question ID : **630680204122**
Option 1 ID : **630680791643**

Comprehension:

Read the given passage and answer the questions that follow.

A social disease that persists from generation to generation is prejudice. The Latin word prejudium, which implies prejudging, is the source of the English word prejudice. It is making a judgement or developing an attitude or belief in advance. It is an assessment made prior to coming into touch with the stimulus or object upon which the assessment is based. A bias is a collection of stereotypes, myths, and legends that employ a group label or symbol to categorise, describe or define an individual or a group taken as a whole.

Thus, one is influenced by the actions, viewpoints, preconceptions, and of course, prejudices of the group when creating a prejudice. Prejudice is a bias that is typically regarded to be a negative attitude towards people, objects, organisations, nations, and nationalities. It is created either to serve the interest of the group or the individual interest. Some people believe that bias is a bad attitude. However, this is incorrect. Both positive and negative attitudes toward a member of a certain social group are referred to as prejudice. Contrarily, discrimination describes unfavourable behaviours taken against particular social groupings, individuals, or institutions. Bias results from the oversimplification of social experiences, which is, what causes prejudice. A member of a particular community mistreats you while you're on a train. All of a sudden, you start to feel resentful of them. We tend to jump to conclusions when it comes to other people, despite the advice of academics, social reformers, social scientists, and every rational person for that matter. We make snap decisions about them, especially the outgroups.

Prejudices are unfounded, unscientific judgments that assume people have specific characteristics and take them for granted. Instead, we anticipate that they will behave in certain ways only by virtue of their membership in particular groups. This particular propensity is crucial to understanding how prejudice and discrimination work. Here, we make judgments before even making physical contact. The way the characters are shown makes it impossible for us to judge them objectively. Prejudice is described by Baron and Byrne (1988) as a particular attitude in which individual characteristics and behaviour are largely irrelevant. They are loved or despised merely by virtue of being a member of a recognised and distinct social group.

Group prejudice, according to Sherif and Sherif (1969), is defined as members' negative views toward members of the outgroup that are a result of their group's norms. Because of the parents' ingrained preconceptions that have been passed down through the generations, the child is influenced by them and grows up with them. Prejudices lack a scientific nature and they are irrational and prejudiced. Creator has modified Stem instructions yet mentions 'defend' and 'no changes required'!!! accept changes and save the item

The forces of good and evil are represented by our in-group and them as the out-group, respectively, in the drama of real life. Who is who depends on which group you belong to. We are the selected, the people of wonderful destiny, and the protectors of our lives, whereas they are the forces of destruction, the inferior people, and the undeserving. Therefore, prejudice is always shown by the 'ingroup' toward the 'outgroup'.

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Prejudice, in the words of Kretch and Crutchfield, is defined as an attitude or belief that helps to favour or disadvantage the subject of the attitude or belief. Even within the same nation or race, there are substantial differences in people's prejudices in terms of their clarity, specificity, strength, relevance, and verifiability in addition to their content. There are several types of prejudice. There may not necessarily be an active violent component to prejudice. Prejudice frequently merely entails the prejudiced person avoiding the outgroup.

SubQuestion No : 17

Q.17 **For whom has the pronoun 'They' been used in the given sentence?**
"They are the forces of destruction, the inferior people, and the undeserving".

Ans ✗ 1. Stereotypes

✔ 2. Outgroups

✗ 3. Group's members

✗ 4. Prejudices

Question ID : **630680204118**
Option 1 ID : **630680791628**

Comprehension:

Read the given passage and answer the questions that follow.

A social disease that persists from generation to generation is prejudice. The Latin word prejudium, which implies prejudging, is the source of the English word prejudice. It is making a judgement or developing an attitude or belief in advance. It is an assessment made prior to coming into touch with the stimulus or object upon which the assessment is based. A bias is a collection of stereotypes, myths, and legends that employ a group label or symbol to categorise, describe or define an individual or a group taken as a whole.

Thus, one is influenced by the actions, viewpoints, preconceptions, and of course, prejudices of the group when creating a prejudice. Prejudice is a bias that is typically regarded to be a negative attitude towards people, objects, organisations, nations, and nationalities. It is created either to serve the interest of the group or the individual interest. Some people believe that bias is a bad attitude. However, this is incorrect. Both positive and negative attitudes toward a member of a certain social group are referred to as prejudice. Contrarily, discrimination describes unfavourable behaviours taken against particular social groupings, individuals, or institutions. Bias results from the oversimplification of social experiences, which is, what causes prejudice. A member of a particular community mistreats you while you're on a train. All of a sudden, you start to feel resentful of them. We tend to jump to conclusions when it comes to other people, despite the advice of academics, social reformers, social scientists, and every rational person for that matter. We make snap decisions about them, especially the outgroups.

Prejudices are unfounded, unscientific judgments that assume people have specific characteristics and take them for granted. Instead, we anticipate that they will behave in certain ways only by virtue of their membership in particular groups. This particular propensity is crucial to understanding how prejudice and discrimination work. Here, we make judgments before even making physical contact. The way the characters are shown makes it impossible for us to judge them objectively. Prejudice is described by Baron and Byrne (1988) as a particular attitude in which individual characteristics and behaviour are largely irrelevant. They are loved or despised merely by virtue of being a member of a recognised and distinct social group.

Group prejudice, according to Sherif and Sherif (1969), is defined as members' negative views toward members of the outgroup that are a result of their group's norms. Because of the parents' ingrained preconceptions that have been passed down through the generations, the child is influenced by them and grows up with them. Prejudices lack a scientific nature and they are irrational and prejudiced. Creator has modified Stem instructions yet mentions 'defend' and 'no changes required'!!! accept changes and save the item

The forces of good and evil are represented by our in-group and them as the out-group, respectively, in the drama of real life. Who is who depends on which group you belong to. We are the selected, the people of wonderful destiny, and the protectors of our lives, whereas they are the forces of destruction, the inferior people, and the undeserving. Therefore, prejudice is always shown by the 'ingroup' toward the 'outgroup'.

Prejudice, according to Fieldman (1985), is a judgement of a group's members that is made primarily based on the fact that they belong to that group rather than necessarily because of specific traits of any given member. Prejudice against women arises because they are women, not because of any unique or particular traits or attributes that they possess. Although prejudice is typically thought of as a bad thing, Fieldman contends that it can also be a good one. People may not like the members of the outgroup, but they may favourably assess those who belong to their own group, the 'ingroup', solely on the basis of that membership. As a result, prejudice is a form of bias and unfounded prejudgment that can be both positive and negative. In both instances, the bias or judgement is not based on the characteristics of a specific person, but rather on the group to which the person belongs. According to Allport, prejudice is a negative attitude held toward people because they are members of, or have been suppressed from being members of, particular groups. Prejudice, in the words of Kretch and Crutchfield, is defined as an attitude or belief that helps to favour or disadvantage the subject of the attitude or belief. Even within the same nation or race, there are substantial differences in people's prejudices in terms of their clarity, specificity, strength, relevance, and verifiability in addition to their content. There are several types of prejudice. There may not necessarily be an active violent component to prejudice. Prejudice frequently merely entails the prejudiced person avoiding the outgroup.

SubQuestion No : 18

Q.18 Identify the central theme of the passage.

Ans ✔ 1. Prejudices can be a negative or positive attitude.

✘ 2. Prejudices as similar to biases and stereotypes.

✘ 3. There are substantial differences in people's prejudices.

✘ 4. Prejudices are prejudgments of outgroups towards ingroups.

Question ID : **630680204119**
Option 1 ID : **630680791632**
Option 2 ID : **630680791631**

Comprehension:

Read the given passage and answer the questions that follow.

A social disease that persists from generation to generation is prejudice. The Latin word prejudium, which implies prejudging, is the source of the English word prejudice. It is making a judgement or developing an attitude or belief in advance. It is an assessment made prior to coming into touch with the stimulus or object upon which the assessment is based. A bias is a collection of stereotypes, myths, and legends that employ a group label or symbol to categorise, describe or define an individual or a group taken as a whole.

Thus, one is influenced by the actions, viewpoints, preconceptions, and of course, prejudices of the group when creating a prejudice. Prejudice is a bias that is typically regarded to be a negative attitude towards people, objects, organisations, nations, and nationalities. It is created either to serve the interest of the group or the individual interest. Some people believe that bias is a bad attitude. However, this is incorrect. Both positive and negative attitudes toward a member of a certain social group are referred to as prejudice. Contrarily, discrimination describes unfavourable behaviours taken against particular social groupings, individuals, or institutions. Bias results from the oversimplification of social experiences, which is, what causes prejudice. A member of a particular community mistreats you while you're on a train. All of a sudden, you start to feel resentful of them. We tend to jump to conclusions when it comes to other people, despite the advice of academics, social reformers, social scientists, and every rational person for that matter. We make snap decisions about them, especially the outgroups.

Prejudices are unfounded, unscientific judgments that assume people have specific characteristics and take them for granted. Instead, we anticipate that they will behave in certain ways only by virtue of their membership in particular groups. This particular propensity is crucial to understanding how prejudice and discrimination work. Here, we make judgments before even making physical contact. The way the characters are shown makes it impossible for us to judge them objectively. Prejudice is described by Baron and Byrne (1988) as a particular attitude in which individual characteristics and behaviour are largely irrelevant. They are loved or despised merely by virtue of being a member of a recognised and distinct social group.

Group prejudice, according to Sherif and Sherif (1969), is defined as members' negative views toward members of the outgroup that are a result of their group's norms. Because of the parents' ingrained preconceptions that have been passed down through the generations, the child is influenced by them and grows up with them. Prejudices lack a scientific nature and they are irrational and prejudiced. Creator has modified Stem instructions yet mentions 'defend' and 'no changes required'!!! accept changes and save the item

The forces of good and evil are represented by our in-group and them as the out-group, respectively, in the drama of real life. Who is who depends on which group you belong to. We are the selected, the people of wonderful destiny, and the protectors of our lives, whereas they are the forces of destruction, the inferior people, and the undeserving. Therefore, prejudice is always shown by the 'ingroup' toward the 'outgroup'.

Prejudice, according to Fieldman (1985), is a judgement of a group's members that is made primarily based on the fact that they belong to that group rather than necessarily because of specific traits of any given member. Prejudice against women arises because they are women, not because of any unique or particular traits or attributes that they possess. Although prejudice is typically thought of as a bad thing, Fieldman contends that it can also be a good one. People may not like the members of the outgroup, but they may favourably assess those who belong to their own group, the 'ingroup', solely on the basis of that membership. As a result, prejudice is a form of bias and unfounded prejudgment that can be both positive and negative. In both instances, the bias or judgement is not based on the characteristics of a specific person, but rather on the group to which the person belongs. According to Allport, prejudice is a negative attitude held toward people because they are members of, or have been suppressed from being members of, particular groups. Prejudice, in the words of Kretch and Crutchfield, is defined as an attitude or belief that helps to favour or disadvantage the subject of the attitude or belief. Even within the same nation or race, there are substantial differences in people's prejudices in terms of their clarity, specificity, strength, relevance, and verifiability in addition to their content. There are several types of prejudice. There may not necessarily be an active violent component to prejudice. Prejudice frequently merely entails the prejudiced person avoiding the outgroup.

SubQuestion No : 19

Q.19 Which of the following written facts has been taken from the passage correctly?

Ans ✗ 1. We make judgments before even making a physical contract with an individual.

✗ 2. Particular propensity is crucial to understanding how prejudice and discrimination work.

✓ 3. Prejudices lack a scientific nature and they are irrational and prejudiced.

✗ 4. Prejudice results from the oversimplification of social experiences, which is what causes biases.

Question ID : **630680204121**
Option 1 ID : **630680791642**

Comprehension:

Read the given passage and answer the questions that follow.

A social disease that persists from generation to generation is prejudice. The Latin word prejudium, which implies prejudging, is the source of the English word prejudice. It is making a judgement or developing an attitude or belief in advance. It is an assessment made prior to coming into touch with the stimulus or object upon which the assessment is based. A bias is a collection of stereotypes, myths, and legends that employ a group label or symbol to categorise, describe or define an individual or a group taken as a whole.

Thus, one is influenced by the actions, viewpoints, preconceptions, and of course, prejudices of the group when creating a prejudice. Prejudice is a bias that is typically regarded to be a negative attitude towards people, objects, organisations, nations, and nationalities. It is created either to serve the interest of the group or the individual interest. Some people believe that bias is a bad attitude. However, this is incorrect. Both positive and negative attitudes toward a member of a certain social group are referred to as prejudice. Contrarily, discrimination describes unfavourable behaviours taken against particular social groupings, individuals, or institutions. Bias results from the oversimplification of social experiences, which is, what causes prejudice. A member of a particular community mistreats you while you're on a train. All of a sudden, you start to feel resentful of them. We tend to jump to conclusions when it comes to other people, despite the advice of academics, social reformers, social scientists, and every rational person for that matter. We make snap decisions about them, especially the outgroups.

Prejudices are unfounded, unscientific judgments that assume people have specific characteristics and take them for granted. Instead, we anticipate that they will behave in certain ways only by virtue of their membership in particular groups. This particular propensity is crucial to understanding how prejudice and discrimination work. Here, we make judgments before even making physical contact. The way the characters are shown makes it impossible for us to judge them objectively. Prejudice is described by Baron and Byrne (1988) as a particular attitude in which individual characteristics and behaviour are largely irrelevant. They are loved or despised merely by virtue of being a member of a recognised and distinct social group.

Group prejudice, according to Sherif and Sherif (1969), is defined as members' negative views toward members of the outgroup that are a result of their group's norms. Because of the parents' ingrained preconceptions that have been passed down through the generations, the child is influenced by them and grows up with them. Prejudices lack a scientific nature and they are irrational and prejudiced. Creator has modified Stem instructions yet mentions 'defend' and 'no changes required'!!! accept changes and save the item

The forces of good and evil are represented by our in-group and them as the out-group, respectively, in the drama of real life. Who is who depends on which group you belong to. We are the selected, the people of wonderful destiny, and the protectors of our lives, whereas they are the forces of destruction, the inferior people, and the undeserving. Therefore, prejudice is always shown by the 'ingroup' toward the 'outgroup'.

Prejudice, according to Fieldman (1985), is a judgement of a group's members that is made primarily based on the fact that they belong to that group rather than necessarily because of specific traits of any given member. Prejudice against women arises because they are women, not because of any unique or particular traits or attributes that they possess. Although prejudice is typically thought of as a bad thing, Fieldman contends that it can also be a good one. People may not like the members of the outgroup, but they may favourably assess those who belong to their own group, the 'ingroup', solely on the basis of that membership. As a result, prejudice is a form of bias and unfounded prejudgment that can be both positive and negative. In both instances, the bias or judgement is not based on the characteristics of a specific person, but rather on the group to which the person belongs. According to Allport, prejudice is a negative attitude held toward people because they are members of, or have been suppressed from being members of, particular groups. Prejudice, in the words of Kretch and Crutchfield, is defined as an attitude or belief that helps to favour or disadvantage the subject of the attitude or belief. Even within the same nation or race, there are substantial differences in people's prejudices in terms of their clarity, specificity, strength, relevance, and verifiability in addition to their content. There are several types of prejudice. There may not necessarily be an active violent component to prejudice. Prejudice frequently merely entails the prejudiced person avoiding the outgroup.

SubQuestion No : 20

Q.20 According to the passage, how are group prejudices caused?

Ans ✗ 1. Being part of a group and following group norms create negative views.

✗ 2. Doing oversimplification of social experiences create a difference in opinions.

✔ 3. Parents' ingrained preconceptions that pass down through generations.

✗ 4. Favourably assessing those who belong to our own group and their views.

Question ID : **630680204120**
Option 1 ID : **630680791635**
Option 2 ID : **630680791638**

Option 3 ID : **630680791636**
Option 4 ID : **630680791637**

Section : Hindi Language and Comprehension

Q.1 निम्नलिखित वाक्य में चिन्हित शब्द का अर्थ बताएं।
तुम मुझे <u>दिन-रात</u> क्यो फोन करते हो?

Ans ✔ 1. हर समय अथवा बार-बार

✘ 2. कभी-कभी या एक बार

✘ 3. सप्ताह में एक बार

✘ 4. एक बार दिन में एक बार रात में

Question ID : **630680778018**
Option 1 ID : **6306803049494**
Option 2 ID : **6306803049495**
Option 3 ID : **6306803049497**
Option 4 ID : **6306803049496**

Q.2 'आलोचना के योग्य' वाक्यांश के लिए सर्वाधिक उपयुक्त सार्थक एक शब्द है-

Ans ✘ 1. आलोचक

✔ 2. आलोच्य

✘ 3. आलोचनात्मक

✘ 4. आलोचकीय

Question ID : **63068048106**
Option 1 ID : **630680185086**
Option 2 ID : **630680185088**
Option 3 ID : **630680185089**
Option 4 ID : **630680185087**

Q.3 निम्नलिखित वाक्यांश हेतु सार्थक शब्द की पहचान करें।
जो अपने स्थान या स्थिति से अलग न किया जा सके।

Ans ✘ 1. अद्यतन

✘ 2. अन्योढ़ा

✔ 3. अच्युत

✘ 4. अनावृष्टि

Question ID : **630680192644**
Option 1 ID : **630680747123**
Option 2 ID : **630680747124**
Option 3 ID : **630680747121**
Option 4 ID : **630680747122**

Q.4 "वह दुकान _____ नहीं है।"

सही कारक का प्रयोग कर वाक्य पूर्ण कीजिए।

Ans ✘ 1. से

✘ 2. ने

✔ 3. पर

✘ 4. के

Question ID : 63068066660
Option 1 ID : 630680257512
Option 2 ID : 630680257510
Option 3 ID : 630680257513
Option 4 ID : 630680257511

Q.5 "बिना <u>आत्मान्नति</u> के देश का उन्नयन असंभव है" उपर्युक्त वाक्य में रेखांकित शब्द की शुद्ध वर्तनी है -

Ans ✘ 1. आत्मोन्नती

✘ 2. अत्मान्नति

✘ 3. आत्मोउन्नति

✔ 4. आत्मोन्नति

Question ID : 630680165017
Option 1 ID : 630680639115
Option 2 ID : 630680639113
Option 3 ID : 630680639112
Option 4 ID : 630680639114

Q.6 'तुम्हें <u>वहाँ</u> नहीं जाना चाहिए |' रेखांकित शब्द क्या है ?

Ans ✘ 1. स्थानबोधक क्रियाविशेषण

✘ 2. परिमाणबोधक क्रियाविशेषण

✘ 3. रीतिबोधक क्रियाविशेषण

✔ 4. कालबोधक क्रियाविशेषण

Question ID : 630680126541
Option 1 ID : 630680490727
Option 2 ID : 630680490729
Option 3 ID : 630680490728
Option 4 ID : 630680490726

Q.7 लोकोक्ति का अर्थ बताएं और उत्तर के रूप में सही विकल्प चुनें।

आगे नाथ न पीछे पगहा

Ans ✔ 1. किसी तरह की जिम्मेवारी का न होना

✘ 2. आगे नाथ रहना चाहिए

✘ 3. जिम्मेदार् यक्ति

✘ 4. पगहा पीछे रहना चाहिए।

Question ID : 630680135410
Option 1 ID : 630680524405
Option 2 ID : 630680524402
Option 3 ID : 630680524403
Option 4 ID : 630680524404

Q.8 'रोहित अच्छी तरह काम करता है।' वाक्य उदाहरण है -

Ans   ✗ 1. स्थानवाचक क्रियाविशेषण

    ✗ 2. कालवाचक क्रियाविशेषण

    ✗ 3. परिमाणवाचक क्रियाविशेषण

    ✓ 4. रीतिवाचक क्रियाविशेषण

Question ID : 63068086147
Option 1 ID : 630680334020
Option 2 ID : 630680334021
Option 3 ID : 630680334023
Option 4 ID : 630680334022

Q.9 **निम्नलिखित वाक्य को उचित क्रम में लिखें।**

खेतों में धान इस बार की फसल अच्छी हुई बहुत।

Ans   ✗ 1. धान की फसल बहुत इस बार खेतों में अच्छी हुई।

    ✗ 2. धान की फसल खेतों में बहुत अच्छी हुई।

    ✗ 3. फसल इस बार खेतों में धान की बहुत अच्छी हुई।

    ✓ 4. इस बार खेतों में धान की फसल बहुत अच्छी हुई।

Question ID : 630680553884
Option 1 ID : 6306802165391
Option 2 ID : 6306802165392
Option 3 ID : 6306802165393
Option 4 ID : 6306802165390

Q.10 निम्नलिखित में से किसी एक वाक्य में वर्तनी सम्बन्धी अशुद्धि नहीं है?

Ans   ✗ 1. कन-कन में ईश्वर का बास है।

    ✗ 2. तुम मेरा विस्वास हो।

    ✗ 3. ब्रक्ष की डाल गिरी।

    ✓ 4. यह बौद्ध विहार है।

Question ID : 63068064677
Option 1 ID : 630680249675
Option 2 ID : 630680249677
Option 3 ID : 630680249674
Option 4 ID : 630680249676

Q.11 लोकोक्ति का अर्थ बताएं और उत्तर के रूप में सही विकल्प चुनें।

न रहेगा बाँस न बजेगी बाँसुरी

Ans ✅ 1. न कारण होगा, न कार्य होगा

❌ 2. बाँसुरी की तान बहुत अच्छी होती है

❌ 3. कलाकार बाँस की बाँसुरी पसंद करते हैं।

❌ 4. बाँस से बाँसुरी बनती है

Question ID : 630680135420
Option 1 ID : 630680524445
Option 2 ID : 630680524443
Option 3 ID : 630680524444
Option 4 ID : 630680524442

Q.12 निम्नलिखित वाक्य को क्रम में लिखें।
काम पूरा जल्दी करो जल्दी।

Ans ❌ 1. जल्दी पूरा काम जल्दी करो।

❌ 2. करो जल्दी काम जल्दी पूरा।

✅ 3. जल्दी-जल्दी काम पूरा करो।

❌ 4. पूरा जल्दी-जल्दी काम करो।

Question ID : 630680555612
Option 1 ID : 6306802171887
Option 2 ID : 6306802171885
Option 3 ID : 6306802171884
Option 4 ID : 6306802171886

Q.13 गीता ने फूलों _____ चित्र बनाया । रिक्त स्थान के लिए करण कारक है -

Ans ❌ 1. की

❌ 2. का

❌ 3. पर

✅ 4. से

Question ID : 63068084961
Option 1 ID : 630680329353
Option 2 ID : 630680329352
Option 3 ID : 630680329355
Option 4 ID : 630680329354

Q.14 उचित क्रिया विशेषण से वाक्य पूर्ण करें –
वह मैदान _____ तक फैला हुआ है।

Ans   ✘ 1. यहां-वहाँ

✘ 2. बाहर-भीतर

✘ 3. इधर-उधर

✔ 4. दूर-दूर

Question ID : 63068055378
Option 1 ID : 630680213530
Option 2 ID : 630680213533
Option 3 ID : 630680213532
Option 4 ID : 630680213531

Q.15 स्वाभाविक का विलोम शब्द है:

Ans   ✘ 1. वास्तविक

✘ 2. स्वत:

✘ 3. प्राकृतिक

✔ 4. कृत्रिम

Question ID : 63068065711
Option 1 ID : 630680253798
Option 2 ID : 630680253799
Option 3 ID : 630680253800
Option 4 ID : 630680253801

Comprehension:
निम्नलिखित गध्यांश को ध्यान पूर्वक पढ़ें और दिये गए प्रश्नों के उत्तर दीजिये।

इतिहास में सब-कुछ यथार्थ होते हुए भी वह असत्य है,और कथा-साहित्य में सब कुछ काल्पनिक होते हुए भी वह सत्य है। इस कथन का आशय है इसके सिवा और क्या हो सकता कि इतिहास आदि से अंत तक हत्या, संग्राम और धोखे का ही प्रदर्शन है ,जो असुंदर है ,इसलिए असत्य है।लोभ की क्रूर से क्रूर,अहंकार की नीच से नीच,ईर्ष्या की अधम -से -अधम से घटनाएं आपको वहाँ मिलेंगी, और आप सोचने लगेंगे ,मनुष्य इतना अमानुष है ! थोड़े-से स्वार्थ के लिए भाई -भाई की हत्या कर डालता है!और बेटा बाप की हत्या कर डालता है और राजा असंख्य प्रजा की हत्या कर डालता है !'उसे पढ़कर मन में ग्लानि होती है, आनंद नहीं ।और जो जो वस्तु आनंद नहीं प्रदान कर सकती वह सुंदर नहीं हो सकती है, और जो सुंदर नहीं हो सकती वह सत्य भी नहीं हो सकती।'जहाँ आनंद है वहीं सत्य है। साहित्य काल्पनिक वस्तु है ; पर उसका प्रधान गुण है आनंद प्रदान करना ,और इसलिए वह सत्य है।

SubQuestion No : 16
Q.16 साहित्य काल्पनिक होने के साथ आनंद प्रदान करता है इसलिए वह कैसा होता है?

Ans   ✘ 1. लोकप्रिय

✘ 2. परोपकारी

✘ 3. असत्य

✔ 4. सत्य

Question ID : 63068052252
Option 1 ID : 630680201110
Option 2 ID : 630680201111
Option 3 ID : 630680201113
Option 4 ID : 630680201112

Comprehension:

निम्नलिखित गध्यांश को ध्यान पूर्वक पढ़ें और दिये गए प्रश्नों के उत्तर दीजिये।

इतिहास में सब-कुछ यथार्थ होते हुए भी वह असत्य है,और कथा-साहित्य में सब कुछ काल्पनिक होते हुए भी वह सत्य है। इस कथन का आशय है इसके सिवा और क्या हो सकता है कि इतिहास आदि से अंत तक हत्या, संग्राम और धोखे का ही प्रदर्शन है ,जो असुंदर है ,इसलिए असत्य है।लोभ की क्रूर से क्रूर,अहंकार की नीच से नीच,ईर्ष्या की अधम -से -अधम से घटनाएं आपको वहाँ मिलेंगी, और आप सोचने लगेंगे, मनुष्य इतना अमानुष है ! थोड़े-से स्वार्थ के लिए भाई-भाई की हत्या कर डालता है!और बेटा बाप की हत्या कर डालता है और राजा असंख्य प्रजा की हत्या कर डालता है !'उसे पढ़कर मन में ग्लानि होती है, आनंद नहीं ।और जो जो वस्तु आनंद नहीं प्रदान कर सकती वह सुंदर नहीं हो सकती है, और जो सुंदर नहीं हो सकती वह सत्य भी नहीं हो सकती।'जहाँ आनंद है वहीं सत्य है। साहित्य काल्पनिक वस्तु है ; पर उसका प्रधान गुण है आनंद प्रदान करना ,और इसलिए वह सत्य है।

SubQuestion No : 17

Q.17 प्रस्तुत गद्यांश का शीर्षक क्या है?

Ans ✗ 1. परोपकार की भावना

✔ 2. इतिहास और साहित्य

✗ 3. धर्म और संस्कृति

✗ 4. संस्कृति का महत्त्व

Question ID : 63068052253
Option 1 ID : 630680201116
Option 2 ID : 630680201114
Option 3 ID : 630680201115
Option 4 ID : 630680201117

Comprehension:

निम्नलिखित गध्यांश को ध्यान पूर्वक पढ़ें और दिये गए प्रश्नों के उत्तर दीजिये।

इतिहास में सब-कुछ यथार्थ होते हुए भी वह असत्य है,और कथा-साहित्य में सब कुछ काल्पनिक होते हुए भी वह सत्य है। इस कथन का आशय है इसके सिवा और क्या हो सकता है कि इतिहास आदि से अंत तक हत्या, संग्राम और धोखे का ही प्रदर्शन है ,जो असुंदर है ,इसलिए असत्य है।लोभ की क्रूर से क्रूर,अहंकार की नीच से नीच,ईर्ष्या की अधम -से -अधम से घटनाएं आपको वहाँ मिलेंगी, और आप सोचने लगेंगे ,मनुष्य इतना अमानुष है ! थोड़े-से स्वार्थ के लिए भाई -भाई की हत्या कर डालता है!और बेटा बाप की हत्या कर डालता है और राजा असंख्य प्रजा की हत्या कर डालता है !'उसे पढ़कर मन में ग्लानि होती है, आनंद नहीं ।और जो जो वस्तु आनंद नहीं प्रदान कर सकती वह सुंदर नहीं हो सकती है, और जो सुंदर नहीं हो सकती वह सत्य भी नहीं हो सकती।'जहाँ आनंद है वहीं सत्य है। साहित्य काल्पनिक वस्तु है ; पर उसका प्रधान गुण है आनंद प्रदान करना ,और इसलिए वह सत्य है।

SubQuestion No : 18

Q.18 इतिहास में सब-कुछ यथार्थ होते हुए भी वह कैसा होता है ?

Ans ✔ 1. असत्य

✗ 2. बुरा

✗ 3. अच्छा

✗ 4. परम्परागत

Question ID : 63068052249
Option 1 ID : 630680201099
Option 2 ID : 630680201100
Option 3 ID : 630680201098
Option 4 ID : 630680201101

Comprehension:

निम्नलिखित गध्यांश को ध्यान पूर्वक पढ़ें और दिये गए प्रश्नों के उत्तर दीजिये।

इतिहास में सब-कुछ यथार्थ होते हुए भी वह असत्य है,और कथा-साहित्य में सब कुछ काल्पनिक होते हुए भी वह सत्य है। इस कथन का आशय है इसके सिवा और क्या हो सकता है कि इतिहास आदि से अंत तक हत्या, संग्राम और धोखे का ही प्रदर्शन है ,जो असुंदर है ,इसलिए असत्य है।लोभ की क्रूर से क्रूर,अहंकार की नीच से नीच,ईर्ष्या की अधम -से -अधम से घटनाएं आपको वहाँ मिलेंगी, और आप सोचने लगेंगे, मनुष्य इतना अमानुष है ! थोड़े-से स्वार्थ के लिए भाई -भाई की हत्या कर डालता है!और बेटा बाप की हत्या कर डालता है और राजा असंख्य प्रजा की हत्या कर डालता है !'उसे पढ़कर मन में ग्लानि होती है, आनंद नहीं ।और जो जो वस्तु आनंद नहीं प्रदान कर सकती वह सुंदर नहीं हो सकती है, और जो सुंदर नहीं हो सकती वह सत्य भी नहीं हो सकती।'जहाँ आनंद है वहीं सत्य है। साहित्य काल्पनिक वस्तु है ; पर उसका प्रधान गुण है आनंद प्रदान करना ,और इसलिए वह सत्य है।

SubQuestion No : 19

Q.19 कथा-साहित्य में सब कुछ काल्पनिक होते हुए भी वह कैसा होता है?

Ans   ✘ 1. पुराना

   ✔ 2. सत्य

   ✘ 3. नया

   ✘ 4. प्राचीन

Question ID : 63068052250
Option 1 ID : 630680201104
Option 2 ID : 630680201102
Option 3 ID : 630680201103
Option 4 ID : 630680201105

Comprehension:

निम्नलिखित गध्यांश को ध्यान पूर्वक पढ़ें और दिये गए प्रश्नों के उत्तर दीजिये।

इतिहास में सब-कुछ यथार्थ होते हुए भी वह असत्य है,और कथा-साहित्य में सब कुछ काल्पनिक होते हुए भी वह सत्य है। इस कथन का आशय है इसके सिवा और क्या हो सकता है कि इतिहास आदि से अंत तक हत्या, संग्राम और धोखे का ही प्रदर्शन है ,जो असुंदर है ,इसलिए असत्य है।लोभ की क्रूर से क्रूर,अहंकार की नीच से नीच,ईर्ष्या की अधम -से -अधम से घटनाएं आपको वहाँ मिलेंगी, और आप सोचने लगेंगे ,मनुष्य इतना अमानुष है ! थोड़े-से स्वार्थ के लिए भाई -भाई की हत्या कर डालता है!और बेटा बाप की हत्या कर डालता है और राजा असंख्य प्रजा की हत्या कर डालता है !'उसे पढ़कर मन में ग्लानि होती है, आनंद नहीं ।और जो जो वस्तु आनंद नहीं प्रदान कर सकती वह सुंदर नहीं हो सकती है, और जो सुंदर नहीं हो सकती वह सत्य भी नहीं हो सकती।'जहाँ आनंद है वहीं सत्य है। साहित्य काल्पनिक वस्तु है ; पर उसका प्रधान गुण है आनंद प्रदान करना ,और इसलिए वह सत्य है।

SubQuestion No : 20

Q.20 आदि से अंत तक हत्या, संग्राम और धोखे का ही प्रदर्शन कहाँ देखने को मिलता है?

Ans   ✘ 1. राजनीति

   ✔ 2. इतिहास

   ✘ 3. कला

   ✘ 4. भूगोल

Question ID : 63068052251
Option 1 ID : 630680201106
Option 2 ID : 630680201108
Option 3 ID : 630680201109
Option 4 ID : 630680201107

Section : **Discipline1**

Q.1 Which of the following statement(s) is/are correct?
Statement 1: PVC is resistant to heat up to 150°C.
Statement 2: PVC with low plasticisers is referred to as U-PVC.
Statement 3: HDPE is a thermosetting plastic made from ethylene monomers.

Ans ✔ 1. Only Statement 2 is correct.

✘ 2. Only Statements 2 and 3 are correct.

✘ 3. Only Statement 1 is correct.

✘ 4. Only Statements 1 and 3 are correct.

Question ID : 630680121404
Option 1 ID : 630680470575
Option 2 ID : 630680470577
Option 3 ID : 630680470574
Option 4 ID : 630680470576

Q.2 For a critical channel, the normal depth is:

Ans ✘ 1. smaller than critical depth

✘ 2. zero

✘ 3. greater than critical depth

✔ 4. equal to critical depth

Question ID : 630680103446
Option 1 ID : 630680402027
Option 2 ID : 630680402030
Option 3 ID : 630680402028
Option 4 ID : 630680402029

Q.3 In India, as per Indian standards, water consumption per capita per day for domestic purpose is:

Ans ✘ 1. 85 L

✘ 2. 100 L

✘ 3. 150 L

✔ 4. 135 L

Question ID : 630680103208
Option 1 ID : 630680401091
Option 2 ID : 630680401092
Option 3 ID : 630680401093
Option 4 ID : 630680401094

Q.4 The coefficient of friction between subgrade and pavement is usually taken as:

Ans ✘ 1. 1.2

✔ 2. 1.5

✘ 3. 1.3

✘ 4. 1.4

Question ID : 63068083055
Option 1 ID : 630680322080
Option 2 ID : 630680322083
Option 3 ID : 630680322081
Option 4 ID : 630680322082

Q.5 Which of the following characteristics of composites refers to their ability to resist deformation under applied load?

Ans ✗ 1. Toughness

✗ 2. Ductility

✓ 3. Stiffness

✗ 4. Brittleness

Question ID : **630680876293**
Option 1 ID : **6306803431939**
Option 2 ID : **6306803431941**
Option 3 ID : **6306803431940**
Option 4 ID : **6306803431942**

Q.6 The state of a simple compressible substance is fixed by _____.

Ans ✗ 1. any three independent, extensive properties

✗ 2. any two independent, extensive properties

✗ 3. any three independent, intensive properties

✓ 4. any two independent, intensive properties

Question ID : **630680116749**
Option 1 ID : **630680452285**
Option 2 ID : **630680452284**
Option 3 ID : **630680452283**
Option 4 ID : **630680452282**

Q.7 The degree of static indeterminacy of the beam shown in the figure below is _____ when the members are axially extensible.
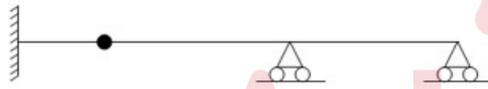
Ans ✗ 1. three

✗ 2. two

✗ 3. zero

✓ 4. one

Question ID : **630680103973**
Option 1 ID : **630680404110**
Option 2 ID : **630680404109**
Option 3 ID : **630680404107**
Option 4 ID : **630680404108**

Q.8 The material of an n-type semiconductor is electrically neutral because, _____.

Ans ✔ 1. ideally, the number of positively charged protons in the nuclei is equal to the number of free and orbiting, negatively charged electrons in the structure

✘ 2. ideally, the number of negatively charged protons in the nuclei is equal to the number of free and orbiting, negatively charged electrons in the structure

✘ 3. ideally, the number of positively charged protons in the nuclei is equal to the number of free electrons in the structure

✘ 4. ideally, the number of free electrons dominates the number of neutrons

Question ID : **630680361453**
Option 1 ID : **6306801407657**
Option 2 ID : **6306801407658**
Option 3 ID : **6306801407660**
Option 4 ID : **6306801407659**

Q.9 Which of the following statements conform(s) to 'corbels' in masonry?

Ans ✘ 1. The portion immediately below window openings.

✘ 2. The bricks used at the corners.

✔ 3. A projection made in stone and brickwork.

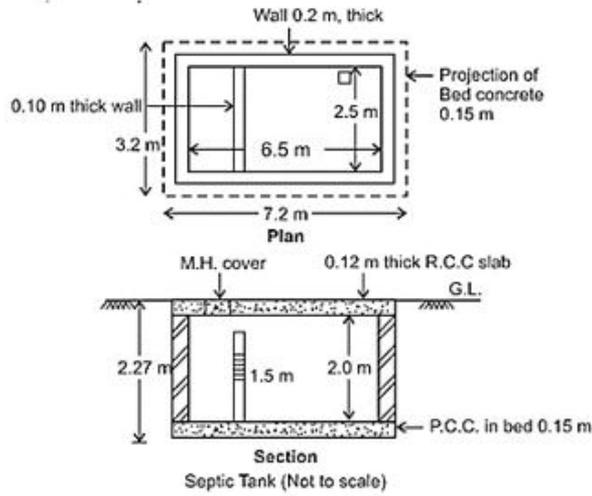✘ 4. A horizontal structural member placed above doors.

Question ID : **630680876244**
Option 1 ID : **6306803431744**
Option 2 ID : **6306803431743**
Option 3 ID : **6306803431745**
Option 4 ID : **6306803431746**

Q.10 A simply supported beam of length L is subjected to the point load 2P at the midpoint of the beam. The beam has two equal overhangs of length L/3 over each support and two supported ends are subjected to the point load P. Find the slope and deflection at the free ends of the beam.

Ans ✘ 1. $17PL^3/648EI$, $PL^2/24EI$

✔ 2. $7PL^2/72EI$, $17PL^3/648EI$

✘ 3. $PL^2/24EI$, $17PL^3/648EI$

✘ 4. $17PL^3/648EI$, $7PL^2/72EI$

Question ID : **630680137601**
Option 1 ID : **630680532773**
Option 2 ID : **630680532770**
Option 3 ID : **630680532772**
Option 4 ID : **630680532771**

Q.11 Find the quantity of P.C.C. in bed for underground septic tank shown in the given figure.

Plan — Wall 0.2 m, thick; 0.10 m thick wall; Projection of Bed concrete 0.15 m; 2.5 m; 3.2 m; 6.5 m; 7.2 m

Section — M.H. cover; 0.12 m thick R.C.C slab; G.L.; 2.27 m; 1.5 m; 2.0 m; P.C.C. in bed 0.15 m

Septic Tank (Not to scale)

Ans

✗ 1. $1 \times 4.2 \text{ m} \times 2.2 \times 0.15 \text{ m}^3$

✗ 2. $2 \times 7.2 \text{ m} \times 1.2 \times 0.15 \text{ m}^3$

✓ 3. $1 \times 7.2 \text{ m} \times 3.2 \times 0.15 \text{ m}^3$

✗ 4. $1 \times 5.2 \text{ m} \times 1.2 \times 0.15 \text{ m}^3$

Q.12 Arrange the following steps involved in using a prismatic compass in their correct order.
1 Levelling
2. Sighting the object
3. Taking readings
4. Setting up and centring

Ans

✓ 1. 4, 1, 2, 3

✗ 2. 2, 3, 1, 4

✗ 3. 1, 2, 3, 4

✗ 4. 2, 1, 4, 3

Q.13 The image of line y - x + 1 = 0 under the map w = 1/z is:

Ans

✔ 1. $\left(u - \frac{1}{2}\right)^2 + \left(v - \frac{1}{2}\right)^2 = \frac{1}{2}$

✘ 2. $\left(u - \frac{1}{4}\right)^2 + \left(v - \frac{1}{4}\right)^2 = \frac{1}{4}$

✘ 3. $\left(u - \frac{1}{5}\right)^2 + \left(v - \frac{1}{5}\right)^2 = \frac{1}{5}$

✘ 4. $\left(u - \frac{1}{3}\right)^2 + \left(v - \frac{1}{3}\right)^2 = \frac{1}{3}$

Question ID : **63068094009**
Option 1 ID : **630680364731**
Option 2 ID : **630680364733**
Option 3 ID : **630680364734**
Option 4 ID : **630680364732**

Q.14 Determine the design discharge of a canal for the below given details of the crop. Time factor is $\frac{10}{15}$ and capacity factor is 0.6.

Crop	Base period (days)	Area (hectares)	Duty at the head of the canal (hectares/cumec)
Sugarcane	320	800	550
Overlap for sugarcane	120	550	1000
Vegetables	120	350	550

Ans

✔ 1. 6.5 cumec

✘ 2. 2.3 cumec

✘ 3. 0.43 cumec

✘ 4. 5.2 cumec

Question ID : **630680147241**
Option 1 ID : **630680569756**
Option 2 ID : **630680569757**
Option 3 ID : **630680569754**
Option 4 ID : **630680569755**

Q.15 A wire of resistance 48 Ω is stretched to twice its original length. The resistance of the stretched wire will be _____.

Ans

✔ 1. 192 Ω

✘ 2. 24 Ω

✘ 3. 12 Ω

✘ 4. 96 Ω

Question ID : **630680504142**
Option 1 ID : **6306801970129**
Option 2 ID : **6306801970132**
Option 3 ID : **6306801970130**
Option 4 ID : **6306801970131**

Q.16 The product of the cross-sectional area of flow in the river and the average velocity of flow is known as _____.

Ans ✗ 1. hydrograph

✗ 2. infiltration

✓ 3. discharge

✗ 4. runoff

Question ID : **63068099875**
Option 1 ID : **630680388199**
Option 2 ID : **630680388196**
Option 3 ID : **630680388197**
Option 4 ID : **630680388198**

Q.17 Which term describes the mode in which an operating system interacts directly with the hardware?

Ans ✗ 1. User mode

✗ 2. Administrator mode

✗ 3. Supervisor mode

✓ 4. Kernel mode

Question ID : **630680876169**
Option 1 ID : **6306803431443**
Option 2 ID : **6306803431445**
Option 3 ID : **6306803431446**
Option 4 ID : **6306803431444**

Q.18 Which of the following statements is/are correct?

1) A frame of reference that moves with constant velocity with respect to an inertial frame is also an inertial frame.
2) A frame of reference that is accelerated with respect to an inertial frame is known as a non-inertial frame.

Ans ✗ 1. Only 1

✗ 2. Only 2

✗ 3. Neither 1 nor 2

✓ 4. Both 1 and 2

Question ID : **630680876295**
Option 1 ID : **6306803431947**
Option 2 ID : **6306803431948**
Option 3 ID : **6306803431950**
Option 4 ID : **6306803431949**

Q.19 When a point is projected onto the frontal plane in an orthographic projection, what is its projection called?

Ans ✗ 1. Top view

✔ 2. Front view

✗ 3. Isometric view

✗ 4. Profile view

Question ID : **630680876142**
Option 1 ID : **6306803431338**
Option 2 ID : **6306803431335**
Option 3 ID : **6306803431337**
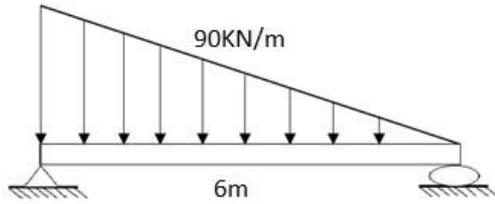Option 4 ID : **6306803431336**

Q.20 What are exfoliation joints?

Ans ✔ 1. They are in fact special cases of unloading joints formed parallel to the present land surface in rocks of high compressive strength.

✗ 2. They are formed during deformation episodes of rock formation when the differential stress is high enough to induce tensile failure in rock body, irrespective of the tectonic regime.

✗ 3. They are formed by the cooling of the hot rock masses, particularly lava, and are commonly expressed as vertical columnar joints.

✗ 4. They are formed when erosion removes the overlying rocks, thereby reducing the compressive load and allowing the rock to expand laterally.

Question ID : **630680876201**
Option 1 ID : **6306803431573**
Option 2 ID : **6306803431571**
Option 3 ID : **6306803431574**
Option 4 ID : **6306803431572**

Section : **Discipline2**

Q.1 A simply supported concrete beam carries a uniformly varying load as shown. The ratio of maximum bending moment to maximum shear force is:

90KN/m

6m

Ans

✔ 1. $\dfrac{2}{\sqrt{3}}$

✘ 2. $\dfrac{2}{3\sqrt{3}}$

✘ 3. $\dfrac{3}{\sqrt{3}}$

✘ 4. $\dfrac{1}{\sqrt{3}}$

Question ID : **630680101156**
Option 1 ID : **630680393145**
Option 2 ID : **630680393146**
Option 3 ID : **630680393147**
Option 4 ID : **630680393144**

Q.2 Calculate the overall cost of tiling the floor of a lecture hall with dimensions 5 m by 8 m. The tiling cost is ₹4,000 per m^2, covering the material, labour and other expenses.

Ans ✘ 1. ₹16,000.00

✘ 2. ₹32,000.00

✔ 3. ₹1,60,000.00

✘ 4. ₹20,000.00

Question ID : **630680876210**
Option 1 ID : **6306803431607**
Option 2 ID : **6306803431610**
Option 3 ID : **6306803431608**
Option 4 ID : **6306803431609**

Q.3 Azimuths from the back line in the measurement of direct angles, which are measured clockwise from the preceding line to the following line, vary from _____ .

Ans ✘ 1. 0° to 270°

✘ 2. 0° to 180°

✔ 3. 0° to 360°

✘ 4. 0° to 900°

Question ID : **630680161588**
Option 1 ID : **630680625681**
Option 2 ID : **630680625683**
Option 3 ID : **630680625680**
Option 4 ID : **630680625682**

Q.4 On a Mollier chart, the constant pressure lines:

Ans ✗ 1. diverge from right to left

✗ 2. are equally spaced throughout

✔ 3. diverge from left to right

✗ 4. converge from left to right

Question ID : **630680147664**
Option 1 ID : **630680571395**
Option 2 ID : **630680571396**
Option 3 ID : **630680571394**
Option 4 ID : **630680571397**

Q.5 Select the INCORRECT method of seismic retrofitting from the following options.

Ans ✔ 1. Symmetrical plan distribution of resisting members and uniform changes in stiffness from one floor to the other

✗ 2. Avoiding the possibility of brittle modes of failure by proper reinforcement and connection of resisting members

✗ 3. Giving unity to the structure, by providing a proper connection between its resisting elements

✗ 4. Increasing the lateral strength in one direction or both the directions by increasing column and wall areas or the number of walls and columns

Question ID : **630680876132**
Option 1 ID : **6306803431298**
Option 2 ID : **6306803431296**
Option 3 ID : **6306803431297**
Option 4 ID : **6306803431295**

Q.6 As per NAAQ for exposure time of 24 hours, the PM_{10} value should NOT be more than _____.

Ans ✔ 1. 150 $\mu g/m^3$

✗ 2. 100 $\mu g/m^3$

✗ 3. 250 $\mu g/m^3$

✗ 4. 200 $\mu g/m^3$

Question ID : **630680157793**
Option 1 ID : **630680610701**
Option 2 ID : **630680610700**
Option 3 ID : **630680610703**
Option 4 ID : **630680610702**

Q.7 **Space trusses are analysed by:**
a) Shape factor
b) Method of sections
c) Method of joints
Which of the above point(s) is/are correct?

Ans ✗ 1. Only a

✓ 2. Only b and c

✗ 3. Only a and b

✗ 4. Only c

Question ID : **630680103967**
Option 1 ID : **630680404083**
Option 2 ID : **630680404085**
Option 3 ID : **630680404084**
Option 4 ID : **630680404086**

Q.8 **Which of the following assumptions regarding Laplace equation for two dimensional flow through soil is NOT valid?**

Ans ✗ 1. Soil mass is fully saturated

✗ 2. Darcy law is valid

✗ 3. Steady state of flow exists

✓ 4. Both soil grains and the pore fluid are compressible

Question ID : **630680114705**
Option 1 ID : **630680444187**
Option 2 ID : **630680444188**
Option 3 ID : **630680444186**
Option 4 ID : **630680444189**

Q.9 **Water is flowing through a rectangular channel. The width and depth of the channel are 830 cm and 140 cm, respectively. If the discharge through the channel is 600 cusecs, then the specific energy of flowing water and the value of minimum specific energy are _____ and _____, respectively.**

Ans ✗ 1. $E = 1.1301$ m; $E_{min} = 1.5091$ m

✗ 2. $E = 12.1595$ m; $E_{min} = 137.29$ m

✗ 3. $E = 137.29$ m; $E_{min} = 12.1595$ m

✓ 4. $E = 1.5091$ m; $E_{min} = 1.1301$ m

Question ID : **630680103444**
Option 1 ID : **630680402019**
Option 2 ID : **630680402022**
Option 3 ID : **630680402020**
Option 4 ID : **630680402021**

Q.10 Which of the following is NOT a function of an operating system?

Ans ✗ 1. Process management

✓ 2. Application development

✗ 3. Memory management

✗ 4. Input/output management

Question ID : 630680876175
Option 1 ID : 6306803431470
Option 2 ID : 6306803431469
Option 3 ID : 6306803431467
Option 4 ID : 6306803431468

Q.11 The cost of shuttering an RRC beam of 150 mm × 300 mm × 3 m long clear span and 150 mm bearing at the rate of @500 per m^2 is _____.

Ans ✗ 1. 1485

✗ 2. 1458

✗ 3. 1328

✓ 4. 1238

Question ID : 63068099198
Option 1 ID : 630680385498
Option 2 ID : 630680385499
Option 3 ID : 630680385497
Option 4 ID : 630680385496

Q.12 Calculate the minimum depth of a shallow foundation using Rankine's formula if pressure at the base of the footing is 30 KN/m^2 and angle of repose of the given soil is 30°. Assume unit weight of the soil as 15 KN/m^3.

Ans ✗ 1. 0.5 m

✗ 2. 0.75 m

✗ 3. 0.33 m

✓ 4. 0.66 m

Question ID : 630680876240
Option 1 ID : 6306803431728
Option 2 ID : 6306803431730
Option 3 ID : 6306803431729
Option 4 ID : 6306803431727

Q.13 Rain gauge station X did not function for a part of the month during which a storm occurred. The storm produced rainfalls of 65, 80, 92 and 95 mm at four surrounding stations A, B, C and D, respectively. Estimate the missing rainfall at station X.

Ans ✗ 1. 95 mm

✓ 2. 83 mm

✗ 3. 65 mm

✗ 4. 80 mm

Question ID : 630680139120
Option 1 ID : 630680538593
Option 2 ID : 630680538591
Option 3 ID : 630680538592
Option 4 ID : 630680538590

Q.14 Which of the following elements is commonly used as a semiconductor in electronic devices?

Ans ✔ 1. Silicon

✗ 2. Copper

✗ 3. Gold

✗ 4. Aluminium

Question ID : **630680876284**
Option 1 ID : **6306803431905**
Option 2 ID : **6306803431903**
Option 3 ID : **6306803431906**
Option 4 ID : **6306803431904**

Q.15 Consider the following probability mass function of a random variable X,

$$P(X = k) = \begin{cases} kp; x = 0 \\ k(1-p), x = 1 \\ 0, x = 2 \end{cases}, \text{ then the mean of X when } p = 0.25 \text{ is:}$$

Ans ✗ 1. 1

✗ 2. $\dfrac{1}{2}$

✗ 3. $\dfrac{1}{3}$

✔ 4. $\dfrac{3}{4}$

Question ID : **63068093933**
Option 1 ID : **630680364427**
Option 2 ID : **630680364428**
Option 3 ID : **630680364429**
Option 4 ID : **630680364430**

Q.16 A rigid retaining wall 5 m high is restrained from yielding. The backfill consists of cohesionless soil having ϕ' = 30° and unit weight of soil γ = 18 kN/m^3. Compute the total earth pressure per metre length of the wall. Consider Sin30° = 0.5, Cos30° = 0.866.

Ans ✗ 1. 337.5 kN/m

✗ 2. 419.85 kN/m

✔ 3. 112.5 kN/m

✗ 4. 30.15 kN/m

Question ID : **630680144856**
Option 1 ID : **630680560464**
Option 2 ID : **630680560465**
Option 3 ID : **630680560463**
Option 4 ID : **630680560462**

Q.17 Improper alignment of roads does NOT result in:

Ans ✗ 1. increase in the construction cost

✓ 2. decrease in the accident rate

✗ 3. increase in the vehicle operation cost

✗ 4. increase in the maintenance cost

Question ID : 630680157901
Option 1 ID : 630680611132
Option 2 ID : 630680611134
Option 3 ID : 630680611133
Option 4 ID : 630680611135

Q.18 Maxwell equations are NOT used for:

Ans ✓ 1. thermodynamics

✗ 2. the wave nature of light and electromagnetic radiation

✗ 3. the relation between electricity and magnetism

✗ 4. the displacement current

Question ID : 630680876310
Option 1 ID : 6306803432009
Option 2 ID : 6306803432008
Option 3 ID : 6306803432007
Option 4 ID : 6306803432010

Q.19 The distance of the centroid of compressive force from the extreme fibre of compression in limit state design is:

Ans ✗ 1. $0.48\ x_u$, where 'x_u' is the depth of neutral axis

✓ 2. $0.416\ x_u$, where 'x_u' is the depth of neutral axis

✗ 3. $0.416\ x_u$, where 'd' is the effective depth

✗ 4. $0.48\ d$, where 'd' is the effective depth

Question ID : 630680206774
Option 1 ID : 630680801698
Option 2 ID : 630680801695
Option 3 ID : 630680801696
Option 4 ID : 630680801697

Q.20 The parallel chord trusses used to span long lengths and to carry flat roofs in buildings or floors of steel bridges are called _____.

Ans ✗ 1. north light trusses

✗ 2. fink trusses

✗ 3. fan trusses

✓ 4. lattice girders

Question ID : 630680219880
Option 1 ID : 630680853401
Option 2 ID : 630680853399
Option 3 ID : 630680853400
Option 4 ID : 630680853402

Section : **Discipline3**

Q.1 **Select the statement which conforms to the term 'mullion' in windows.**

Ans ✗ 1. Revealed part of the jamb on the sides of window frames.

✓ 2. Vertical member in the middle of a window which subdivides the window.

✗ 3. Recess made inside the window frame to receive the shutter.

✗ 4. Horizontal member in a window frame which subdivides the frame.

Question ID : **630680876263**
Option 1 ID : **6306803431822**
Option 2 ID : **6306803431819**
Option 3 ID : **6306803431821**
Option 4 ID : **6306803431820**

Q.2 **The effect due to temperature fluctuations and shrinkage in concrete can be ignored in the design calculation for an ordinary building, whose lateral dimensions do NOT exceed:**

Ans ✓ 1. 45 m

✗ 2. 60 m

✗ 3. 50 m

✗ 4. 40 m

Question ID : **630680206826**
Option 1 ID : **630680801904**
Option 2 ID : **630680801906**
Option 3 ID : **630680801905**
Option 4 ID : **630680801903**

Q.3 **During the recuperation test of a 4 m open well, a recuperation of the depression head from 2.5 m to 1.25 m was found to take place in 2 hours. Determine the specific capacity per unit well area.**

Ans ✓ 1. $0.347 \ h^{-1}$

✗ 2. $1.386 \ h^{-1}$

✗ 3. $13.86 \ h^{-1}$

✗ 4. $3.47 \ h^{-1}$

Question ID : **63068099869**
Option 1 ID : **630680388175**
Option 2 ID : **630680388173**
Option 3 ID : **630680388172**
Option 4 ID : **630680388174**

Q.4 The recommended thickness for the granular base for traffic of up to 2 MSA is _____.

Ans
✗ 1. 250 mm

✗ 2. 350 mm

✓ 3. 225 mm

✗ 4. 150 mm

Question ID : **630680157935**
Option 1 ID : **630680611270**
Option 2 ID : **630680611271**
Option 3 ID : **630680611269**
Option 4 ID : **630680611268**

Q.5 Match the following concrete exposure conditions with their environment.

A	Moderate	I	Concrete completely immersed in seawater
B	Severe	II	Concrete exposed to condensation and rain
C	Very severe	III	Surface of concrete member in tidal zone
D	Extreme	IV	Concrete exposed to seawater spray

Ans
✗ 1. A-II, B-I, C-III, D-IV

✗ 2. A-I, B-II, C-IV, D-III

✓ 3. A-II, B-I, C-IV, D-III

✗ 4. A-I, B-II, C-III, D-IV

Question ID : **63068099204**
Option 1 ID : **630680385523**
Option 2 ID : **630680385520**
Option 3 ID : **630680385522**
Option 4 ID : **630680385521**

Q.6 The cost of transporting materials does NOT depend on which of the following factors?

Ans
✗ 1. Speed of the vehicle

✗ 2. Cost of owing

✗ 3. Lead of materials per trip

✓ 4. Standby charges

Question ID : **630680504060**
Option 1 ID : **6306801969803**
Option 2 ID : **6306801969802**
Option 3 ID : **6306801969804**
Option 4 ID : **6306801969801**

Q.7 किसी सेल में वैद्युतअपघट्य के रूप में कार्य करने के लिए किसी पदार्थ के लिए निम्नलिखित में से कौन-सी आवश्यकता नहीं होती है?

Ans ✗ 1. इसमें विद्युत धारा का प्रवाह सुगम होना चाहिए।

✗ 2. यह पिघली हुई अवस्था में होना चाहिए।

✗ 3. इसे आयनों में वियोजित होना चाहिए।

✔ 4. यह ऊष्मा का अच्छा चालक होना चाहिए।

Question ID : **630680876278**
Option 1 ID : **6306803431881**
Option 2 ID : **6306803431879**
Option 3 ID : **6306803431880**
Option 4 ID : **6306803431882**

Q.8 Which classification of computers is known for its ability to process large volumes of data and handle multiple users simultaneously?

Ans ✗ 1. Workstations

✗ 2. Supercomputers

✔ 3. Mainframe computers

✗ 4. Personal computers

Question ID : **630680876165**
Option 1 ID : **6306803431430**
Option 2 ID : **6306803431429**
Option 3 ID : **6306803431428**
Option 4 ID : **6306803431427**

Q.9 Among the various materials related to electronics, the band gap is maximum in _____.

Ans ✔ 1. Insulators

✗ 2. Superconductors

✗ 3. Conductors

✗ 4. Semiconductors

Question ID : **630680361444**
Option 1 ID : **6306801407623**
Option 2 ID : **6306801407622**
Option 3 ID : **6306801407621**
Option 4 ID : **6306801407624**

Q.10 Determine the slope at point A for the beam shown here.
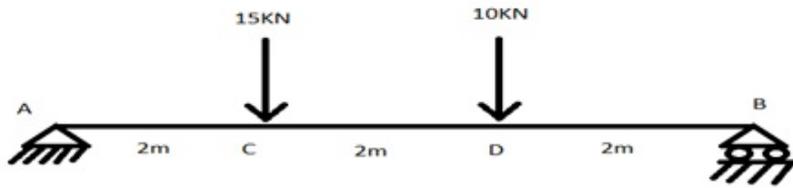
Ans

✗ 1. $\dfrac{51.09}{EI}$

✓ 2. $\dfrac{-51.09}{EI}$

✗ 3. $51.09EI$

✗ 4. $\dfrac{51.09}{I}$

Question ID : **630680197112**
Option 1 ID : **630680764732**
Option 2 ID : **630680764733**
Option 3 ID : **630680764731**
Option 4 ID : **630680764734**

Q.11 What will be the value of Chezy's constant 'C' if the velocity of flow 'V' is 1.506m/s, bed slope is 1 in 2000 and hydraulic mean depth 'm' is 1.5?

Ans

✗ 1. 57

✓ 2. 55

✗ 3. 54

✗ 4. 56

Question ID : **630680103433**
Option 1 ID : **630680401976**
Option 2 ID : **630680401977**
Option 3 ID : **630680401978**
Option 4 ID : **630680401975**

Q.12 The type of sewer that transports sewage to the point of sewer treatment is called _____.

Ans

✓ 1. outfall sewer

✗ 2. main sewer

✗ 3. house sewer

✗ 4. intercepting sewer

Question ID : **630680157775**
Option 1 ID : **630680610628**
Option 2 ID : **630680610629**
Option 3 ID : **630680610631**
Option 4 ID : **630680610630**

Q.13 The expression for second virial coefficient for a gas obeying Van der Waal's equation of state is _____.

Ans ✖ 1. b + a/RT

   ✔ 2. b - a/RT

     ✖ 3. -b + a/Rt

     ✖ 4. -b - a/Rt

Question ID : **630680144889**
Option 1 ID : **630680560595**
Option 2 ID : **630680560596**
Option 3 ID : **630680560594**
Option 4 ID : **630680560597**

Q.14 Select the INCORRECT use of IS 13920:1993, adopted in all the reinforced concrete structures that satisfy one of the following four conditions.

Ans ✖ 1. The structure is located in Seismic Zone IV or V.

     ✖ 2. The structure is located in Seismic Zone III and has importance factor (I) of greater than 1.0.

     ✔ 3. The structure is located in Seismic Zone II and is more than 10 storeys high.

     ✖ 4. The structure is located in Seismic Zone III and is an industrial structure.

Question ID : **630680876126**
Option 1 ID : **6306803431271**
Option 2 ID : **6306803431272**
Option 3 ID : **6306803431274**
Option 4 ID : **6306803431273**

Q.15 Compute the total flow Q (in m³/day) under the dam shown in the given figure. Assume the hydraulic conductivity of the aquifer soil k = 10⁻² cm/sec, the length of the dam perpendicular to the section L = 150 m and the total head change from the reservoir to the tail water Δ h = 8 m.
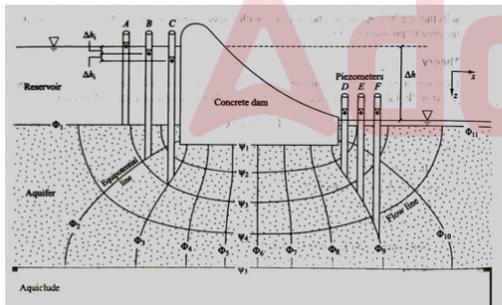
Ans ✖ 1. 2170

     ✔ 2. 4150

     ✖ 3. 4520

     ✖ 4. 3278

Question ID : **630680145695**
Option 1 ID : **630680563706**
Option 2 ID : **630680563708**
Option 3 ID : **630680563709**
Option 4 ID : **630680563707**

Q.16 A point lies in the fourth quadrant, 200 mm away from the vertical plane and 150 mm away from the horizontal plane. An orthographic projection is drawn. What is the distance from the point in the front view to the reference line, and the distance from the point in the top view to the reference line, respectively?

Ans
- ✗ 1. 200 mm and 150 mm
- ✓ 2. 150 mm and 200 mm
- ✗ 3. 0 mm and 150 mm
- ✗ 4. 200 mm and 0 mm

Question ID : **630680876143**
Option 1 ID : **6306803431339**
Option 2 ID : **6306803431340**
Option 3 ID : **6306803431342**
Option 4 ID : **6306803431341**

Q.17 Crop period is assumed to be approximately equal to _____ for all practical purposes.

Ans
- ✓ 1. Base period
- ✗ 2. Kor period
- ✗ 3. Paleo depth
- ✗ 4. Kor depth

Question ID : **630680147218**
Option 1 ID : **630680569664**
Option 2 ID : **630680569662**
Option 3 ID : **630680569665**
Option 4 ID : **630680569663**

Q.18 Choose the INCORRECT statement with respect to local attraction in a magnetic compass.

Ans
- ✓ 1. There are some places called magnetic anomalies where the local attraction is negligible.
- ✗ 2. A magnetic needle will not point to the magnetic north when it is under the influence of the external attractive force.
- ✗ 3. The amount of deviation of the magnetic needle with respect to magnetic north in a given locality is the measure of local attraction.
- ✗ 4. Local attraction by magnetic material is the disturbing influence on the magnetic needle of the compass.

Question ID : **630680121649**
Option 1 ID : **630680471547**
Option 2 ID : **630680471546**
Option 3 ID : **630680471549**
Option 4 ID : **630680471548**

Q.19 If $f(x)=e^x$ & $g(x)=e^{-x}$ are defiened in [a,b] then the 'c' of Cauchy's meanvalue theorem is, where $c \in (a,b)$

Ans ✗ 1. the geometric mean of a and b

✗ 2. the harmonic mean of a and b

✗ 3. $c = \dfrac{a + 2b}{3}$

✓ 4. the arithmetic mean of a and b

Question ID : 630680139731
Option 1 ID : 630680540974
Option 2 ID : 630680540976
Option 3 ID : 630680540977
Option 4 ID : 630680540975

Q.20 A simply supported beam is subjected to pure bending as shown in the given figure. What is the ratio of the compressive stress to tensile stress if the cross-section is equilateral triangle?

M_O

Ans ✗ 1. 4

✗ 2. 1

✗ 3. 0.5

✓ 4. 2

Question ID : 630680117133
Option 1 ID : 630680453821
Option 2 ID : 630680453819
Option 3 ID : 630680453818
Option 4 ID : 630680453820

Section : Discipline4

Q.1 Which of the following is NOT a non-clastic sedimentary rock?

Ans ✗ 1. Calcarenite

✗ 2. Dolomite

✗ 3. Chert

✓ 4. Sandstone

Question ID : 630680876193
Option 1 ID : 6306803431542
Option 2 ID : 6306803431540
Option 3 ID : 6306803431539
Option 4 ID : 6306803431541

Q.2 Select the correct option regarding the following two statements labelled Assertion (A) and Reason (B).
Assertion A: The consumption of water increases with an increase in the distribution pressure.
Reason B: Higher distribution pressure causes more loss of water.

Ans ✔ 1. Both A and B are true, and B is the correct explanation of A.

✘ 2. Both A and B are true, but B is not the correct explanation of A.

✘ 3. A is true but B is false.

✘ 4. A is false but B is true.

Question ID : **630680103207**
Option 1 ID : **630680401087**
Option 2 ID : **630680401088**
Option 3 ID : **630680401089**
Option 4 ID : **630680401090**

Q.3 Hydrological flood routing methods use _____.

Ans ✘ 1. the energy equation

✘ 2. both continuity and momentum equations

✔ 3. the continuity equation only

✘ 4. the momentum equation only

Question ID : **630680101134**
Option 1 ID : **630680393063**
Option 2 ID : **630680393062**
Option 3 ID : **630680393061**
Option 4 ID : **630680393060**

Q.4 A rectangular footing (3 m × 2 m) exerts a pressure of 100 kN/m^2 on cohesive soil (E_s = 5 × 10^4 kN/m^2 and μ = 0.50). Determine the immediate settlement at the centre, assuming a flexible footing. For L/B = 1.5 take I (Influence factor) = 1.36

Ans ✘ 1. 2.6 mm

✔ 2. 4.1 mm

✘ 3. 8.2 mm

✘ 4. 5.3 mm

Question ID : **630680201883**
Option 1 ID : **630680782879**
Option 2 ID : **630680782880**
Option 3 ID : **630680782882**
Option 4 ID : **630680782881**

Q.5 In an electric circuit, the inductor stores energy in the form of _____.

Ans ✗ 1. both electric field and magnetic field

✓ 2. magnetic field

✗ 3. neither electric field nor magnetic field

✗ 4. electric field

Question ID : **630680340721**
Option 1 ID : **6306801325327**
Option 2 ID : **6306801325326**
Option 3 ID : **6306801325328**
Option 4 ID : **6306801325325**

Q.6 Which of the following wastes gives the maximum energy recovery?

Ans ✗ 1. Food waste

✓ 2. Metal waste

✗ 3. Rubber waste

✗ 4. Plastic waste

Question ID : **630680157796**
Option 1 ID : **630680610713**
Option 2 ID : **630680610712**
Option 3 ID : **630680610715**
Option 4 ID : **630680610714**

Q.7 Which of the following statements related to PERT is/are true?
Statement 1: Time estimates of activities follow beta distribution.
Statement 2: Probability of activity occurrence follows beta distribution.

Ans ✗ 1. Only Statement 2 is true.

✗ 2. Both Statements 1 and 2 are true.

✗ 3. Neither Statement 1 nor Statement 2 is true.

✓ 4. Only Statement 1 is true.

Question ID : **630680121414**
Option 1 ID : **630680470615**
Option 2 ID : **630680470616**
Option 3 ID : **630680470617**
Option 4 ID : **630680470614**

Q.8 Equation for flow line is given by $\phi = 6xy^2$. Determine the component of flow velocity at point coordinates (2, 1) in Y direction.

Ans ✗ 1. 48 units

✗ 2. 24 units

✗ 3. 12 units

✓ 4. 36 units

Question ID : **630680133473**
Option 1 ID : **630680516869**
Option 2 ID : **630680516867**
Option 3 ID : **630680516866**
Option 4 ID : **630680516868**

Q.9 Where do you locate the hydraulic jump in a channel?

Ans ✔ 1. A hydraulic jump is located where the flow depths upstream and downstream of the jump satisfy the equation for the sequent depth ratio.

✘ 2. A hydraulic jump is located where the discharge is less.

✘ 3. A hydraulic jump is located where the flow depths upstream and downstream of the jump are parallel to each other.

✘ 4. A hydraulic jump is located where the flow depths upstream and downstream of the jump are perpendicular to each other.

Question ID : **630680108856**
Option 1 ID : **630680422316**
Option 2 ID : **630680422319**
Option 3 ID : **630680422318**
Option 4 ID : **630680422317**

Q.10 In a welded plate girder subjected to only uniformly distributed load, the welded connection is provided to connect the web plate to flange plates of the plate girder. The plate girder is designed by using the post-critical method. At any intermediate section of the plate girder, the connection between the web and the flange is designed to transmit _____.

Ans ✔ 1. the maximum horizontal shear force resulting from the bending moment gradient in the plate girder

✘ 2. the bending moment at the section of the plate girder

✘ 3. half of the total uniformly distributed vertical load on the plate girder

✘ 4. the total uniformly distributed vertical load on the plate girder

Question ID : **630680219871**
Option 1 ID : **630680853365**
Option 2 ID : **630680853366**
Option 3 ID : **630680853364**
Option 4 ID : **630680853363**

Q.11 Which of the following statements is/are true for flooring work?

Statement 1: Dado (including raking dado) shall be measured in running metre.
Statement 2: Skirting (including raking skirting) shall be measured in square metre stating the height.

Ans ✔ 1. Both statement 1 and statement 2 are false

✘ 2. Both statement 1 and statement 2 are true

✘ 3. Statement 1 is false and statement 2 is true

✘ 4. Statement 1 is true and statement 2 is false

Question ID : **630680339563**
Option 1 ID : **6306801320774**
Option 2 ID : **6306801320773**
Option 3 ID : **6306801320776**
Option 4 ID : **6306801320775**

Q.12 Which communication model allows multiple parties to communicate with each other simultaneously using dedicated channels for each participant?

Ans ✗ 1. Full-duplex

✗ 2. Half-duplex

✓ 3. Multipoint

✗ 4. Simplex

Question ID : **630680876183**
Option 1 ID : **6306803431501**
Option 2 ID : **6306803431500**
Option 3 ID : **6306803431502**
Option 4 ID : **6306803431499**

Q.13 The number of vehicles occupying a unit length of a lane of the roadway at a given instant of time is called:

Ans ✗ 1. traffic capability

✓ 2. traffic density

✗ 3. traffic capacity

✗ 4. traffic volume

Question ID : **63068083042**
Option 1 ID : **630680322031**
Option 2 ID : **630680322029**
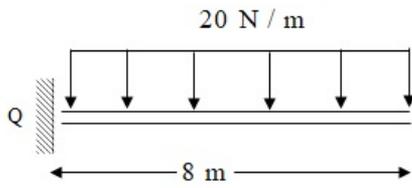Option 3 ID : **630680322030**
Option 4 ID : **630680322028**

Q.14 Identify the statement(s) which is/are INCORRECT.
A. The depth of water table at which it tends to make the soil water logged and harmful to the growth and subsistence of plant life depends upon the height of capillary fringe.
B. The normal height of capillary fringe met within agricultural soils varies from 0.5 m to 3.5 m.
C. The adverse effects of high water table upon the yield of crops also depends upon the nature of crop grown.

Ans ✗ 1. Only A

✗ 2. Both A and C

✗ 3. Only C

✓ 4. Only B

Question ID : **630680144453**
Option 1 ID : **630680558878**
Option 2 ID : **630680558881**
Option 3 ID : **630680558880**
Option 4 ID : **630680558879**

Q.15 A cantilever beam of length 8 m carries a uniformly distributed load as shown in the figure. The shear force at the distance of 3 m from the free end is:

20 N / m

8 m

Ans ✓ 1. 60 N

✗ 2. 45 N

✗ 3. 30 N

✗ 4. 15 N

Question ID : 630680101154
Option 1 ID : 630680393139
Option 2 ID : 630680393138
Option 3 ID : 630680393136
Option 4 ID : 630680393137

Q.16 In isometric projection, the three coordinate axes are inclined at angles of:

Ans ✓ 1. 120 degrees each

✗ 2. 45 degrees each

✗ 3. 90 degrees each

✗ 4. 60 degrees each

Question ID : 630680876154
Option 1 ID : 6306803431384
Option 2 ID : 6306803431385
Option 3 ID : 6306803431383
Option 4 ID : 6306803431386

Q.17 The bearing of the lines of an open traverse are given below. Identify the magnitude of local attraction at affected stations.

PQ: 36° 10'	QP: 216° 30'
QR: 109° 20'	RQ: 288° 40'
RS: 159° 30'	SR: 341° 10'
SP: 270° 20'	PS: 89° 20'

Ans ✗ 1. P: 40'; Q: 1°

✗ 2. S: 40'; P: 1°

✗ 3. Q: 40'; R: 1°

✓ 4. R: 40'; S: 1°

Question ID : 630680121650
Option 1 ID : 630680471550
Option 2 ID : 630680471553
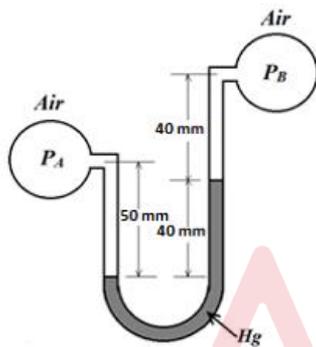Option 3 ID : 630680471551
Option 4 ID : 630680471552

Q.18 Match the following types of floorings and their characteristics and applications.

A. Granolithic finish	1. Dancing hall flooring
B. Cork flooring	2. Marble chips flooring
C. Timber flooring	3. Noiseless flooring
D. Terrazzo flooring	4. Industrial flooring

Ans ✔ 1. A-4, B-3, C-1, D-2

✗ 2. A-4, B-3, C-2, D-1

✗ 3. A-3, B-4, C-2, D-1

✗ 4. A-3, B-4, C-1, D-2

Question ID : 630680876256
Option 1 ID : 6306803431794
Option 2 ID : 6306803431791
Option 3 ID : 6306803431793
Option 4 ID : 6306803431792

Q.19 A U-tube differential manometer is shown in the figure. $P_A = 10$ kPa.
Determine the pressure (in pascal) in pipe B (P_B). The specific weight of water
is given as 9810 N/m^3. The specific gravity of Hg is 13.6

Ans ✗ 1. 2331.68

✗ 2. 3497.52

✔ 3. 4663.36

✗ 4. 1165.84

Question ID : 630680157804
Option 1 ID : 630680610745
Option 2 ID : 630680610746
Option 3 ID : 630680610747
Option 4 ID : 630680610744

Q.20 If the limiting strain in the extreme fibre of concrete in compression reaches earlier than the limiting value of strain in steel in tension zone in a rectangular singly-reinforced beam, then the section of the beam is called _____.

Ans
✗ 1. balanced section

✗ 2. under-reinforced section

✗ 3. neutral reinforced section

✓ 4. over-reinforced section

Question ID : **630680206776**
Option 1 ID : **630680801703**
Option 2 ID : **630680801704**
Option 3 ID : **630680801706**
Option 4 ID : **630680801705**

Section : **Discipline5**

Q.1 Which of the following IS codes provides a test method procedure for the static cone penetration test?

Ans
✗ 1. IS: 4968 (Part II)

✓ 2. IS: 4968 (Part III)

✗ 3. IS: 4968 (Part IV)

✗ 4. IS: 4968 (Part I)

Question ID : **630680159090**
Option 1 ID : **630680615829**
Option 2 ID : **630680615830**
Option 3 ID : **630680615831**
Option 4 ID : **630680615828**

Q.2 The consolidated ground layer prepared below the ground floor to reduce capillary suction of water to flooring is called ____.

Ans
✗ 1. base

✓ 2. sub-base

✗ 3. sub-grade

✗ 4. topping

Question ID : **630680876254**
Option 1 ID : **6306803431785**
Option 2 ID : **6306803431783**
Option 3 ID : **6306803431784**
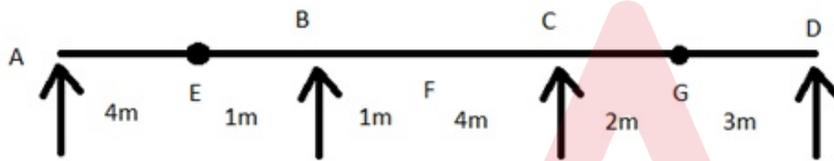Option 4 ID : **6306803431786**

Q.3 A clay layer is subjected to a pressure of 60 kN/m². The layer has a single drainage and undergoes 50% consolidation in one year. Coefficient of permeability = 0.35 m/year and coefficient of volume change = 1.8×10^{-3} m²/kN. Find the thickness of the clay layer. Consider specific weight of water = 9.81 kN/m³ and time factor $T_V = 0.197$

Ans

✗ 1. 4 m

✗ 2. 12 m

✔ 3. 10 m

✗ 4. 8 m

Q.4 For the beam shown in the given figure, determine the ordinates at point E and point G.

Ans

✔ 1. $\dfrac{6}{5}, \dfrac{2}{5}$

✗ 2. 1, 1

✗ 3. $\dfrac{2}{5}, \dfrac{5}{6}$

✗ 4. $\dfrac{5}{6}, \dfrac{2}{5}$

Q.5 As per IS:800-2007, the design tensile strength of a friction grip type bolt is equal to the nominal tensile strength of the bolt divided by the partial safety factor. If the tensile strength is calculated at ultimate load, the partial safety factor will be _____.

Ans ✗ 1. 1.1

✗ 2. 1.15

✓ 3. 1.25

✗ 4. 1.5

Question ID : **630680219832**
Option 1 ID : **630680853207**
Option 2 ID : **630680853208**
Option 3 ID : **630680853209**
Option 4 ID : **630680853210**

Q.6 A simple composite bar is comprised of two members — a solid circular bar, contained inside a circular tube. The materials of the bar and tube have coefficients of linear expansion (2α) and (α), respectively. In case the ends of the bar and tube are connected rigidly to each other, find the Force set up by alter of temperature (take the area of the solid bar and tube as A_1 and A_2 and E_1 and E_2 are the elastic modulus of both the members).

Ans ✓ 1. $\dfrac{\alpha}{\left(\dfrac{1}{E_1A_1} + \dfrac{1}{E_2A_2}\right)}$

✗ 2. $\dfrac{2\alpha}{\left(\dfrac{1}{E_1A_1} + \dfrac{1}{E_2A_2}\right)}$

✗ 3. $\dfrac{1.5\alpha}{\left(\dfrac{1}{E_1A_1} + \dfrac{1}{E_2A_2}\right)}$

✗ 4. $\dfrac{3\alpha}{\left(\dfrac{1}{E_1A_1} + \dfrac{1}{E_2A_2}\right)}$

Question ID : **630680199031**
Option 1 ID : **630680771837**
Option 2 ID : **630680771836**
Option 3 ID : **630680771838**
Option 4 ID : **630680771835**

Q.7 At any cross-section, the plane section before bending remains plane after bending, which means:

Ans ✔ 1. the strain at any layer is proportional to the distance from the neutral axis

✘ 2. the bond stress at any layer is proportional to the distance from the neutral axis

✘ 3. all the tensile stress is taken up by steel

✘ 4. the torsion at any layer is proportional to the distance from the neutral axis

Question ID : **630680206769**
Option 1 ID : **630680801676**
Option 2 ID : **630680801677**
Option 3 ID : **630680801678**
Option 4 ID : **630680801675**

Q.8 The eigenvalue of a particle is used:

Ans ✘ 1. to measure the velocity of the particle

✘ 2. to measure the momentum of the particle

✔ 3. to measure the energy of the particle

✘ 4. to measure the mass of the particle

Question ID : **630680876325**
Option 1 ID : **6306803432069**
Option 2 ID : **6306803432067**
Option 3 ID : **6306803432068**
Option 4 ID : **6306803432070**

Q.9 The given figure represents _____ type of tile drain layout.

Ans ✔ 1. intercepting drain

✘ 2. grid iron

✘ 3. herring bone

✘ 4. double main

Question ID : **630680111664**
Option 1 ID : **630680432391**
Option 2 ID : **630680432390**
Option 3 ID : **630680432393**
Option 4 ID : **630680432392**

Q.10 Determine the required radius of the central curve for an exit taxiway joining a runway and a parallel main taxiway. The total angle of turn is 35° and the maximum turn-off speed is 80 km/h. Take average deceleration rate as 1 m/s^2 and the coefficient of friction between tyre and pavement surface as 0.13.

Ans ✗ 1. 374 m

✗ 2. 345 m

✗ 3. 354 m

✓ 4. 394 m

Question ID : **630680114831**
Option 1 ID : **630680444692**
Option 2 ID : **630680444693**
Option 3 ID : **630680444691**
Option 4 ID : **630680444690**

Q.11 In surveying, the purpose of levelling is to determine:

Ans ✗ 1. the vertical angle

✗ 2. horizontal distance

✗ 3. the horizontal angle

✓ 4. the elevation of given points with respect to assumed datum

Question ID : **630680121652**
Option 1 ID : **630680471561**
Option 2 ID : **630680471559**
Option 3 ID : **630680471558**
Option 4 ID : **630680471560**

Q.12 A revised estimate is prepared when the sanctioned amount of expenditure exceeds the amount of administrative sanction by:

Ans ✗ 1. more than 10%

✗ 2. 5%

✓ 3. more than 5%

✗ 4. more than 3%

Question ID : **630680876219**
Option 1 ID : **6306803431646**
Option 2 ID : **6306803431645**
Option 3 ID : **6306803431643**
Option 4 ID : **6306803431644**

Q.13 Which of the following igneous bodies appears crescent shaped at its surface?

Ans ✗ 1. Laccolith

✓ 2. Phacolith

✗ 3. Lopolith

✗ 4. Batholith

Question ID : **630680876190**
Option 1 ID : **6306803431529**
Option 2 ID : **6306803431528**
Option 3 ID : **6306803431530**
Option 4 ID : **6306803431527**

Q.14 Seismic base isolation involves increasing the _____ of a structure, resulting in lower vibration frequencies compared to those of fixed-base structures and soil at the location.

Ans
✗ 1. damping ratio

✗ 2. damped frequency

✗ 3. natural frequency

✓ 4. natural time period

Question ID : **630680876118**
Option 1 ID : **6306803431242**
Option 2 ID : **6306803431239**
Option 3 ID : **6306803431241**
Option 4 ID : **6306803431240**

Q.15 When a system is in equilibrium, any conceived change in entropy would be:

Ans
✓ 1. zero

✗ 2. negative

✗ 3. positive

✗ 4. maximum

Question ID : **630680211723**
Option 1 ID : **630680821041**
Option 2 ID : **630680821042**
Option 3 ID : **630680821040**
Option 4 ID : **630680821039**

Q.16 A bar of the length of 'L' having an area of cross-section as 'A' is subjected to a load of 100 KN. At point A near the proportional limit, the ordinate and abscissa were found to be (100MPa, 10%). The true stress at point A is _____.

Ans
✗ 1. 100 Mpa

✗ 2. 150 Mpa

✗ 3. 105 Mpa

✓ 4. 110 Mpa

Question ID : **630680102006**
Option 1 ID : **630680396380**
Option 2 ID : **630680396383**
Option 3 ID : **630680396382**
Option 4 ID : **630680396381**

Q.17 Geogrids CANNOT be used as _____.

Ans
✗ 1. material for improving the soil bearing capacity

✓ 2. a filtration medium

✗ 3. soil reinforcement

✗ 4. separator at the soil-stone interface

Question ID : **63068099193**
Option 1 ID : **630680385477**
Option 2 ID : **630680385479**
Option 3 ID : **630680385476**
Option 4 ID : **630680385478**

Q.18 Air occupies 1 m³ at 1 atmospheric pressure. What pressure (atmospheric) is required to reduce the volume of the gas by 10% under isothermal condition?

Ans
  ✗ 1. 1.66

  ✔ 2. 1.11

  ✗ 3. 0.9

  ✗ 4. 1.38

Question ID : **63068082856**
Option 1 ID : **630680321291**
Option 2 ID : **630680321289**
Option 3 ID : **630680321288**
Option 4 ID : **630680321290**

Q.19 Length 'L' of the summit curve when it exceeds the stopping sight distance is calculated by the formula _____, where N = Deviation angle and S = Sight distance (in m).

Ans

  ✗ 1. $\dfrac{NS^2}{4.2}$

  ✗ 2. $\dfrac{NS^2}{4.1}$

  ✗ 3. $\dfrac{NS^2}{4.3}$

  ✔ 4. $\dfrac{NS^2}{4.4}$

Question ID : **630680157910**
Option 1 ID : **630680611169**
Option 2 ID : **630680611168**
Option 3 ID : **630680611170**
Option 4 ID : **630680611171**

Q.20 The median of the series from 100 to 200 of all the multiples of 3 and 5 is:

Ans
  ✗ 1. 165

  ✔ 2. 150

  ✗ 3. 180

  ✗ 4. 135

Question ID : **63068093950**
Option 1 ID : **630680364496**
Option 2 ID : **630680364497**
Option 3 ID : **630680364498**
Option 4 ID : **630680364495**