Exam Date	03/12/2022
Exam Time	5:15 PM - 6:15 PM
Subject	Combined Graduate Level Examination Tier I 2022

Section : **General Intelligence and Reasoning**

Q.1 In a certain code language, 'EDUCATION' is written as 'GFWCATKQP' and 'PROFESSOR' is written as 'RTQFESUQT'. How will 'FACULTIES' be written in that language?

Ans ✗ 1. HCEWLTIGU

✗ 2. HCEWNVKGU

✔ 3. HCEULTKGU

✗ 4. HCEULVKGU

Question ID : 26433066025
Status : **Answered**
Chosen Option : **3**

Q.2 By interchanging the given two signs and numbers which of the following equation will be correct?
+ and ×, 1 and 2

Ans ✗ 1. $8 × 3 − 4 ÷ 2 + 1 = 7$

✗ 2. $2 × 3 − 8 ÷ 1 + 9 = 18$

✔ 3. $8 × 3 − 4 ÷ 2 + 1 = 3$

✗ 4. $2 × 3 − 8 ÷ 1 + 2 = 5$

Question ID : 264330105140
Status : **Answered**
Chosen Option : **3**

Q.3 Three different positions of the same dice are shown. Find the number on the face opposite the face showing '2'.
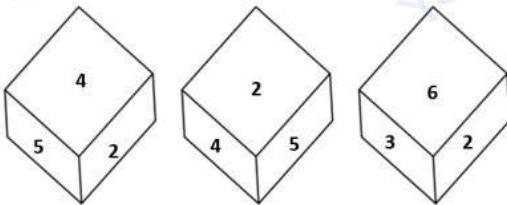

Figure 1   Figure 2   Figure 3

Ans ✗ 1. 5

✗ 2. 4

✗ 3. 3

✔ 4. 1

Question ID : 26433081533
Status : **Answered**
Chosen Option : **4**

Q.4 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(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.)
(6, 22, 14)
(8, 30, 19)

Ans ✖ 1. (12, 46, 27)

✔ 2. (4, 18, 11)

✖ 3. (7, 26, 17)

✖ 4. (9, 34, 22)

Question ID : **26433079023**
Status : **Not Answered**
Chosen Option : **--**

Q.5 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 / 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)
(63, 81, 7)
(84, 49, 12)

Ans ✔ 1. (99, 121, 9)

✖ 2. (76, 234, 12)

✖ 3. (12, 125, 56)

✖ 4. (78, 14, 56)

Question ID : **26433079129**
Status : **Answered**
Chosen Option : **1**

Q.6 Select the set in which the numbers are NOT related in the same way as are the numbers of the given set.
(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 / substracting / 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)
(22, 9, 198)

Ans ✖ 1. (19, 7, 133)

✖ 2. (26, 5, 130)

✖ 3. (28, 7, 196)

✔ 4. (17, 9, 157)

Question ID : **26433068340**
Status : **Answered**
Chosen Option : **4**

Q.7 A + B means 'A is the father of B'
A – B means 'A is the mother of B'
A @ B means 'A is the son of B'
A # B means 'A is the daughter of B'
If A # B – C @ D + E, then how is A related to E?

Ans ✖ 1. Sister-in-law

✖ 2. Mother

✔ 3. Sister

✖ 4. Daughter

Question ID : **26433059905**
Status : **Answered**
Chosen Option : **3**

Q.8 Three Statements are given followed by Three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:
All spoons are forks.
All knives are forks.
All forks are plates.

Conclusions:
I. All knives are plates.
II. All plates are spoons.
III. Some plates are knives.

Ans ✗ 1. All conclusions follow.

✗ 2. Both conclusions II and III follow.

✗ 3. Both conclusions I and II follow.

✔ 4. Both conclusions I and III follow.

Q.9 Which of the following numbers will replace the question mark (?) in the given series?
?, 11, 35, 107, 323

Ans ✗ 1. 4

✗ 2. 5

✗ 3. 8

✔ 4. 3

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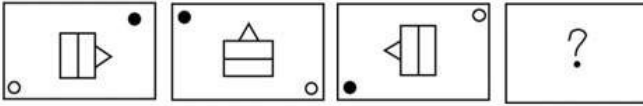II. All R are Q.
Conclusion:
I. All Q are R.
II. All P are R.

Ans ✔ 1. Neither conclusion follows

✗ 2. Only conclusion I follows

✗ 3. Only conclusion II follows
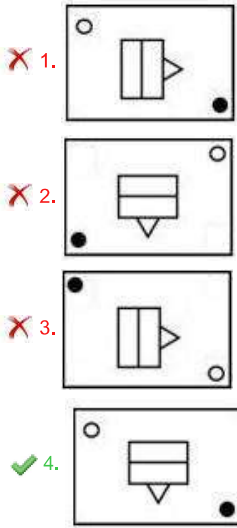
✗ 4. Both conclusions I and II follows

Q.11 Select the figure that will replace the question mark (?) in the following figure series.

Ans

✗ 1.

✗ 2.

✗ 3.

✔ 4.

Q.12 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1. Lesage
2. Laudatory
3. Laureate
4. Latitude
5. Legacy
6. Laudanum
7. Launder

Ans ✗ 1. 4, 6, 7, 3, 2, 1, 5

✗ 2. 4, 6, 7, 2, 3, 1, 5

✔ 3. 4, 6, 2, 7, 3, 5, 1

✗ 4. 4, 6, 2, 3, 7, 1, 5

Q.13 Which of the following terms will replace the question mark (?) in the given series?

VTHJ ? TRJL SQKM RPLN

Ans ✗ 1. USIP

✗ 2. UZIK

✔ 3. USIK

✗ 4. USLK

Q.14 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g.13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans ✗ 1. (90 –93 –96)

✗ 2. (84 –87 –90)

✔ 3. (44–49 –52)

✗ 4. (58 –61 –64)

Q.15 If L × M means that L is the mother of M, L – M means that L is the father of M, L ÷ M means that L is the sister of M, then which of the following expression shows that P is the father of R?

Ans ✗ 1. Q – P × R

✔ 2. P – Q ÷ R

✗ 3. P – Q × R

✗ 4. R – P × Q

Q.16 Which figure should replace the question mark (?) if the series were to be continued?

I		Z	Z			I	I			C	C		I
B	K	C	T	8		K	K	T	8	S	Z	T	**?**
	8			C				Z			8		

Ans

✔ 1.

I		8
T	S	Z
	C	

✘ 2.

8		C
T	S	Z
	I	

✘ 3.

I		C
Z	T	S
	8	

✘ 4.

I		C
S	8	Z
	T	

Q.17 Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).
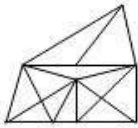
(X)

Ans

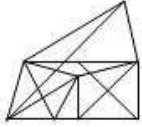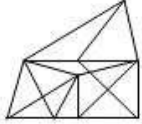 ✔ 1.
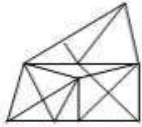
 ✘ 2.

 ✘ 3.

 ✘ 4.

Q.18 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Bee : Beehive :: Dog : ?

Ans ✔ 1. Kennel

✘ 2. Stable

✘ 3. Pen

✘ 4. Shed

Q.19 Select the word-pair that best represents a similar relationship to the one expressed in the given pair of words.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Tailor : Sewing machine

Ans ✘ 1. Electrician : Expensive

✘ 2. Farmer : Plants

✘ 3. Scissors : Hair

✔ 4. Police : Handcuffs

Q.20 In a certain code language, STEAMER is coded as 81, and CRUISE is coded as 75. How will SUBMARINE be coded in that language?

Ans ✓ 1. 102

✗ 2. 109

✗ 3. 100

✗ 4. 115

Q.21 Which of the following letter-clusters will replace the question mark (?) in the given series?
RLV, PNS, NPP, ?, JTJ

Ans ✗ 1. MSN

✓ 2. LRM

✗ 3. KQN

✗ 4. KTM

Q.22 Select the correct combination of mathematical signs to replace the * signs and balance the given equation.
66 * 6 * 12 * 3 * 15 = 12

Ans ✗ 1. ÷, −, ×, +

✓ 2. +, −, ÷, ×

✗ 3. ÷, ×, +, −

✗ 4. ×, −, ÷, +

Q.23 Which two numbers, from amongst the given options, should be interchanged to make the given equation correct?

$$54 - (3 \times 12) \div (8)^{\frac{1}{3}} + (11 \times 4) + 6 = 69$$

Ans ✗ 1. 11 and 6

✗ 2. 4 and 12

✗ 3. 6 and 4

✓ 4. 3 and 4

Q.24 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?

Ans ✗ 1. EQVK

✗ 2. RDIX

✓ 3. QFJV

✗ 4. IMRO

Question ID : 26433081500
Status : **Answered**
Chosen Option : **3**

Q.25

Select the option figure in which the given figure is embedded (rotation is NOT allowed).

Ans

✗ 1.

✓ 2.

✗ 3.

✗ 4.

Question ID : 26433067438
Status : **Answered**
Chosen Option : **2**

Section : **General Awareness**

Q.1 The arms Act which disallowed Indians from having arms was passed in _____.

Ans ✓ 1. 1878

✗ 2. 1925

✗ 3. 1920

✗ 4. 1855

Question ID : 264330105560
Status : **Not Answered**
Chosen Option : **--**

Q.2 Roquefortine C is found in:

Ans ✗ 1. Meat

✗ 2. chicken

✗ 3. Egg

✓ 4. cheese

Question ID : **26433064455**
Status : **Not Answered**
Chosen Option : **--**

Q.3 The Mohiniyattam dance form originated from which state?

Ans ✓ 1. Kerala

✗ 2. Karnataka

✗ 3. Tamil Nadu

✗ 4. Maharashtra

Question ID : **26433064372**
Status : **Answered**
Chosen Option : **1**

Q.4 The body of the _____ is circular in cross-section, hence, the name roundworms. They may be free living, aquatic and terrestrial or parasitic in plants and animals.

Ans ✗ 1. Platyhelminthes

✗ 2. Ctenophores

✗ 3. Mollusca

✓ 4. Aschelminthes

Question ID : **26433092190**
Status : **Not Answered**
Chosen Option : **--**

Q.5 Which French chemist was one of the first scientists to synthesise organic compounds such as formic acid, methane and acetylene from their elements?

Ans ✗ 1. Jacob Berzelius

✗ 2. Auguste Laurent

✓ 3. Marcellin Berthelot

✗ 4. Antoine Lavoisier

Question ID : **26433092183**
Status : **Not Answered**
Chosen Option : **--**

Q.6 For which year was Manna Dey honored with the Dadasaheb Phalke Award?

Ans ✗ 1. 2015

✗ 2. 2019

✓ 3. 2007

✗ 4. 2001

Question ID : **26433074112**
Status : **Not Answered**
Chosen Option : **--**

Q.7 Ugadi is celebrated in which of the following states?

Ans ✗ 1. Madhya Pradesh

✓ 2. Andhra Pradesh

✗ 3. Himachal Pradesh

✗ 4. Kerala

Question ID : **26433080971**
Status : **Answered**
Chosen Option : **2**

Q.8 Who has been appointed as the Chief Executive Officer of NITI Aayog in June 2022?

Ans ✗ 1. Avinash Kulkarni

✗ 2. Krishna Srinivasan

✗ 3. Vivek Kumar

✓ 4. Parameswaran Iyer

Question ID : **264330105348**
Status : **Answered**
Chosen Option : **4**

Q.9 Which special knowledge or practical experience is NOT a condition for being nominated to Rajya Sabha by the President of India?

Ans ✗ 1. Science

✗ 2. Art

✓ 3. Eloquence

✗ 4. Literature

Question ID : **26433074848**
Status : **Answered**
Chosen Option : **3**

Q.10 Achievement of self-reliance and removal of poverty were twin objectives of which five-year plan?

Ans ✗ 1. Third

✓ 2. Fifth

✗ 3. Fourth

✗ 4. Second

Question ID : **26433066619**
Status : **Answered**
Chosen Option : **2**

Q.11 Who said the following words?
"Sarfaroshi ki tamanna ab hamare dil me hai, dekhna hai zor kitna baazu-e-qaatil me hai"

Ans ✓ 1. Ramprasad Bismil

✗ 2. Bhagat Singh

✗ 3. Ras Bihari Bose

✗ 4. Subhash Chandra Bose

Question ID : **26433089154**
Status : **Answered**
Chosen Option : **1**

Q.12 Which of the following pairs of countries will host the 2023 FIFA Women's World Cup?

Ans ✗ 1. Canada and Mexico

✗ 2. New Zealand and Austria

✗ 3. France and Canada

✓ 4. New Zealand and Australia

Question ID : **26433059399**
Status : **Answered**
Chosen Option : **4**

Q.13 Which force is responsible for the motion of the moon around earth?

Ans ✗ 1. Van der Waals

✗ 2. Centrifugal

✗ 3. Frictional

✓ 4. Centripetal

Question ID : **26433086736**
Status : **Marked For Review**
Chosen Option : **2**

Q.14 Who took oath as the 49th Chief Justice of India in August 2022?

Ans ✗ 1. Sanjiv Kapoor

✗ 2. Ajay Kumar Sood

✓ 3. Uday Umesh Lalit

✗ 4. Rajiv Ranjan

Question ID : **264330105355**
Status : **Answered**
Chosen Option : **3**

Q.15 Identify the animal that is NOT a non-chordate.

Ans ✓ 1. Repltiles

✗ 2. Arthropods

✗ 3. Porifera

✗ 4. Arachnids

Question ID : **26433091482**
Status : **Not Answered**
Chosen Option : **--**

Q.16 Asiad is regulated by_____.

Ans ✗ 1. International Olympic Council

✗ 2. Commonwealth Games Federation

✗ 3. Indian Olympic Council

✓ 4. Olympic Council of Asia

Question ID : **26433071539**
Status : **Not Answered**
Chosen Option : **--**

Q.17 Dhuadhar falls originate from which of the following river?

Ans ✗ 1. Mahanadi

✗ 2. Godavari

✓ 3. Narmada

✗ 4. Krishna

Question ID : **264330105665**
Status : **Marked For Review**
Chosen Option : **4**

Q.18 In which of the following cases did the Supreme Court of India pronounce the theory of the 'Basic Structure' of the Constitution?

Ans ✓ 1. Kesavananda Bharati Case, 1973

✗ 2. Golaknath Case, 1967

✗ 3. Minerva Mills Case, 1980

✗ 4. Swarn Singh Case, 1989

Question ID : **26433074842**
Status : **Answered**
Chosen Option : **1**

Q.19 The year whose prices are being used to calculate the real GDP is called _____.

Ans ✗ 1. current year

✗ 2. constant year

✓ 3. base year

✗ 4. fiscal year

Question ID : **264330105395**
Status : **Answered**
Chosen Option : **3**

Q.20 Ajmer became the suba headquarters under the _____.

Ans ✗ 1. Pallavas

✗ 2. Cholas

✓ 3. Mughals

✗ 4. Delhi Sultanate

Question ID : **264330105444**
Status : **Answered**
Chosen Option : **3**

Q.21 The headquarters of the National Institute of Oceanography of India is located at:

Ans ✗ 1. New Delhi

✗ 2. Hyderabad

✗ 3. Kanyakumari

✓ 4. Goa

Question ID : **26433089210**
Status : **Answered**
Chosen Option : **2**

Q.22 Unemployment arising due to mismatch between Job availability in the market and skills of available worker is called?

Ans   ✗ 1. Seasonal

     ✓ 2. Structural

     ✗ 3. Economical

     ✗ 4. Frictional

Question ID : **264330105523**
Status : **Answered**
Chosen Option : **2**

Q.23 Ravikirti was the court poet of which of the following dynasty ruler?

Ans   ✗ 1. Cholas

     ✗ 2. Cheras

     ✗ 3. Pallavas

     ✓ 4. Chalukyas

Question ID : **264330105197**
Status : **Answered**
Chosen Option : **4**

Q.24 India's First AI-powered, end-to-end digital Lok Adalat was launched in _____.

Ans   ✗ 1. Uttar Pradesh

     ✓ 2. Rajasthan

     ✗ 3. Madhya Pradesh

     ✗ 4. Gujarat

Question ID : **264330105239**
Status : **Answered**
Chosen Option : **2**

Q.25 Kagyed dance, a customary dance festival which is celebrated annually in Sikkim falls in which month?

Ans   ✗ 1. May

     ✗ 2. October

     ✓ 3. December

     ✗ 4. August

Question ID : **26433072642**
Status : **Not Answered**
Chosen Option : **--**

Section : **Quantitative Aptitude**

Q.1

The value of $\sqrt{\dfrac{1+\cos A}{1-\cos A}}$ is:

Ans   ✗ 1. sec A - tan A

    ✓ 2. cosec A + cot A

    ✗ 3. sec A + tan A

    ✗ 4. cosec A - cot A

Q.2 In a ΔABC, the median BE intersects AC at E. If BG=12 cm, where G is the centroid, then BE is equal to:

Ans   ✗ 1. 16 cm

    ✓ 2. 18 cm

    ✗ 3. 15 cm

    ✗ 4. 13 cm

Q.3 The table given below shows the number of players participating in two games in six different schools?

Schools	Games	
	A	B
J	31	58
K	24	36
L	18	26
M	29	37
N	12	33
P	40	44

What is the ratio of total number of players participating in game A to the total number of players participating in game B?

Ans   ✗ 1. 117 : 77

    ✗ 2. 67 : 116

    ✓ 3. 77 : 117

    ✗ 4. 116 : 57

Q.4 (mx + n) is a factor of:

Ans   ✗ 1. $m^2 x^2 + 2nx + n^2$

    ✓ 2. $m^2 x^2 + 2mnx + n^2$

    ✗ 3. $m^2 x^2 + 2mx + n^2$

    ✗ 4. $m^2 x^2 + 2mn + n^2$

Q.5 △ABC is a right-angle triangle at B. If $\tan A = \frac{5}{12}$, then $\sin A + \sin B + \sin C$ will be equal to:

Ans

✗ 1. $1\frac{5}{13}$
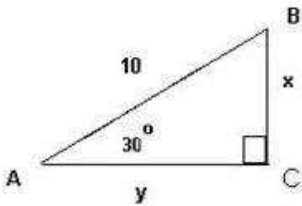
✔ 2. $2\frac{4}{13}$

✗ 3. $3\frac{1}{13}$

✗ 4. $2\frac{1}{13}$

Q.6 Study the given triangle and find the length of BC.

Ans

✗ 1. $\frac{5}{2}$

✗ 2. 6

✔ 3. 5

✗ 4. 3

Q.7 With an average speed of 45 km/h, a train reaches its destination on time. If it goes with an average speed of 30 km/h, it is late by 15 minutes. The total journey is:

Ans ✗ 1. 20.5 km

✗ 2. 40.5 km

✔ 3. 22.5 km

✗ 4. 30.5 km

Q.8 The tax on the salary of C is $\frac{1}{4}$ of the salary and savings are $\frac{1}{3}$ of the salary. The ratio of the expenditures to the savings is _____.

Ans
- ✗ 1. 4 : 5
- ✗ 2. 4 : 3
- ✓ 3. 5 : 4
- ✗ 4. 3 : 4

Q.9 Study the following table and answer the question that follows.

A school has four sections A, B, C and D of Class IX students.

The results of Science and Mathematics examinations are shown in the following table.

RESULT	No. of Students			
	Section A	Section B	Section C	Section D
Failed in both	24	25	18	20
Failed in Science but passed in Mathematics	14	12	10	15
Passed in Science but failed in Mathematics	7	6	8	10
Passed in both	63	60	56	55

What is the ratio of number of students who failed in Science but passed in Mathematics of section B and section D together to the number of students of section A that passed in both subjects?

Ans
- ✗ 1. $9 : 17$
- ✓ 2. $3 : 9$
- ✗ 3. $4 : 9$
- ✗ 4. $5 : 11$

Q.10 In a 1200 m race, bike A beats bike B by 100 m. Bike B beats bike C by 100 m in a 600 m race. If bike A beats bike C by 30 sec in a 720 m race, then what is the speed of bike C?

Ans
- ✓ 1. $\frac{17}{3}$ m/ sec
- ✗ 2. $\frac{26}{9}$ m/ sec
- ✗ 3. $\frac{17}{9}$ m/ sec
- ✗ 4. $\frac{26}{3}$ m/ sec

Q.11 The following table gives information of panchayat elections held in six villages P, Q, R, S, T and U.

Village	Total number of votes (in hundreds)	Votes polled (in %)	Valid votes (in %)
P	50	80	80
Q	60	75	80
R	100	65	65
S	80	60	70
T	60	80	90
U	40	90	60

Hint: 1) percentage of votes polled = $\frac{\text{Total votes polled}}{\text{Total number of votes}} \times 100$

2) percentage of valid votes = $\frac{\text{Total valid votes}}{\text{Total votes polled}} \times 100$

Find the ratio of invalid votes of village R to that of village U ?

Ans   ✗ 1. 455 : 268

     ✗ 2. 321 : 107

     ✓ 3. 455 : 288

     ✗ 4. 423 : 755

Q.12 A dishonest trader says to customers that he sells his goods at a cost price, but he uses a false weight and gains 12.5% as profit. How many grams does he use to weigh 1 kg?

Ans   ✗ 1. 900 g

     ✗ 2. 880.5 g

     ✗ 3. 850 g

     ✓ 4. 888.8 g

Q.13 Find the largest number of 3 digits divisible by 4 and 7.

Ans   ✗ 1. 960

     ✓ 2. 980

     ✗ 3. 990

     ✗ 4. 970

Q.14 A and B working separately can complete a piece of work in 10 and 16 days, respectively. If they work for a day alternately, with A beginning the work, in how many day(s) will the work be completed?

Ans

✗ 1. $10\dfrac{1}{4}$

✓ 2. $12\dfrac{1}{4}$

✗ 3. $1\dfrac{1}{4}$

✗ 4. $\dfrac{1}{4}$

Question ID : **26433082601**
Status : **Answered**
Chosen Option : **2**

Q.15 If the length of the diagonal of a cube is $7\sqrt{3}$ cm, then the surface area of the cube is _____.

Ans

✗ 1. 216 cm^2

✗ 2. 256 cm^2

✗ 3. 284 cm^2

✓ 4. 294 cm^2

Question ID : **26433063980**
Status : **Answered**
Chosen Option : **4**

Q.16 If $\Delta BPQ \cong \Delta ASR$ and $\angle A = \dfrac{1}{3}\angle R = \angle S$ then find $\angle Q$. (All angles are in degrees).

Ans

✓ 1. $108°$

✗ 2. $36°$

✗ 3. $72°$

✗ 4. $118°$

Question ID : **26433085495**
Status : **Not Answered**
Chosen Option : **--**

Q.17 Two identical circles each of radius 30 cm intersect each other such that the circumference of each one passes through the centre of the other. What is the area of the intersecting region?

Ans
✗ 1. $400\pi - 250\sqrt{3}$ cm²

✗ 2. $300\pi - 150\sqrt{3}$ cm²

✗ 3. $500\pi - 350\sqrt{3}$ cm²

✔ 4. $600\pi - 450\sqrt{3}$ cm²

Q.18 The marked price of a chair is ₹ 2,400, which is 20% above the cost price. If the chair is sold at a discount of 10% on marked price, what is the profit percentage?

Ans
✗ 1. 10%

✔ 2. 8%

✗ 3. 9%

✗ 4. 26.2%

Q.19 A sum becomes Rs.15,500 in 7 years on simple interest at the rate of 30 percent per annum. What is the total interest for the 7 years?

Ans
✗ 1. Rs.12,200

✗ 2. Rs.1,47,000

✔ 3. Rs.10,500

✗ 4. Rs.11,500

Q.20 Study the given table and answer the question that follows.

The table shows the percentage of marks obtained by 7 students in different subjects.

Subject / Students	Hindi	English	Maths	Physics	Chemistry	Biology	IT
Amit	67	88	92	88	58	60	98
Ruchi	65	78	68	70	64	72	76
Kanchan	89	66	76	76	72	68	76
Prashant	88	80	72	68	62	64	72
Mrinal	78	64	76	74	68	80	78
Kunal	60	86	88	74	94	76	84
Diksha	74	92	96	66	86	88	96

How many students have scored the highest percentage of marks in more than one subject?

Ans ✗ 1. Four

✗ 2. Three

✔ 3. Two

✗ 4. One

Q.21

If $x + y + z = 0$, then what is the value of $\dfrac{x^2}{(yz)} + \dfrac{y^2}{(xz)} + \dfrac{z^2}{(xy)}$?

Ans ✗ 1. 1

✗ 2. 0

✗ 3. 2

✔ 4. 3

Q.22 What is the possible value of $(a + b + c) - 3$, if $a^2 + b^2 + c^2 = 9$ and $ab + bc + ca = 8$?

Ans ✗ 1. 5

✗ 2. 3

✗ 3. 9

✔ 4. 2

Q.23 If the 8-digit number 123456xy is divisible by 8, then the total possible pairs of (x,y) are:

Ans ✗ 1. 8

✔ 2. 13

✗ 3. 10

✗ 4. 11

Q.24 The area of a sector of a circle is 308cm^2, with the central angle measuring 45°. The radius of the circle is:

Ans
  ✗ 1. 14 cm

  ✗ 2. 21 cm

  ✗ 3. 7 cm

  ✓ 4. 28 cm

Q.25 The cost of apples is increased by 20% and then decreased by 20%. What is the net pecentage decrease?

Ans
  ✓ 1. 4%

  ✗ 2. 3%

  ✗ 3. 5%

  ✗ 4. 6%

Section : **English Comprehension**

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

The anchor gave us a _____ welcome, a pleasant smile and a bouquet on reaching the hotel.

Ans
  ✓ 1. warm

  ✗ 2. worth

  ✗ 3. winning

  ✗ 4. wonderful

Q.2 Select the correct passive voice form for the given sentence.

Rashi was writing a letter to her husband.

Ans
  ✓ 1. A letter was being written by Rashi to her husband.

  ✗ 2. A letter were being written by Rashi to her husband.

  ✗ 3. A letter was been written by Rashi to her husband.

  ✗ 4. A letter were been written by Rashi to her husband.

Q.3 Select the option that can be used as a one-word substitute for the given group of words.

The study of languages

Ans ✅ 1. Philology

❌ 2. Anthropology

❌ 3. Lexicography

❌ 4. Philosophy

Question ID : **26433070632**
Status : **Answered**
Chosen Option : **1**

Q.4 Select the most appropriate ANTONYM of the given word.

Exemplary

Ans ❌ 1. Flattering

✅ 2. Unsatisfactory

❌ 3. Imitative

❌ 4. Desirable

Question ID : **26433071836**
Status : **Marked For Review**
Chosen Option : **2**

Q.5 Choose the incorrectly spelt word.

Ans ❌ 1. Irritating

❌ 2. Pedestrian

❌ 3. Enervating

✅ 4. Beguilling

Question ID : **264330104744**
Status : **Answered**
Chosen Option : **4**

Q.6 Select the option that can be used as a one-word substitute for the given group of words.

Sharp and direct

Ans ✅ 1. Acerbic

❌ 2. Zoonic

❌ 3. Anodyne

❌ 4. Acidic

Question ID : **26433071929**
Status : **Not Answered**
Chosen Option : **--**

Q.7 Select the most appropriate synonym of the given word.

Keen

Ans ✘ 1. Happy

✔ 2. Enthusiastic

✘ 3. Wild

✘ 4. Imitate

Question ID : **26433072192**
Status : **Answered**
Chosen Option : **2**

Q.8 Select the INCORRECTLY spelt word.

Ans ✘ 1. Adopt

✔ 2. Acces

✘ 3. Abandon

✘ 4. Abase

Question ID : **26433063137**
Status : **Answered**
Chosen Option : **2**

Q.9 Select the option that can be used as a one-word substitute for the underlined group of words.

After my father passed away, I used to look at a <u>series of stars</u>, trying to find the unknown.

Ans ✘ 1. Galaxy

✔ 2. Constellation

✘ 3. Caravan

✘ 4. Horde

Question ID : **26433088614**
Status : **Answered**
Chosen Option : **1**

Q.10 Select the option that can be used as a one-word substitute for the given group of words.

One who does something not professionally but for pleasure

Ans ✘ 1. Professional

✘ 2. Mature

✘ 3. Immature

✔ 4. Amateur

Question ID : **26433060905**
Status : **Answered**
Chosen Option : **4**

Q.11 Select the most appropriate ANTONYM of the word 'polite' in the given sentence.

The rude and insensitive murderer pleaded for mercy in the court.

Ans ✗ 1. Pleaded

✗ 2. Mercy

✗ 3. Insensitive

✓ 4. Rude

Question ID : **26433060115**
Status : **Answered**
Chosen Option : **4**

Q.12 The following sentence has been split into four segments. Identify the segment that contains an error.

The newspaper reported / that it was a mystery / how the thieves enter / into the house.

Ans ✗ 1. into the house

✓ 2. how the thieves enter

✗ 3. that it was a mystery

✗ 4. The newspaper reported

Question ID : **26433088288**
Status : **Marked For Review**
Chosen Option : **2**

Q.13 Select the word that is OPPOSITE in meaning to the given word.

Adversity

Ans ✓ 1. Fortune

✗ 2. Affliction

✗ 3. Brilliance

✗ 4. Penury

Question ID : **26433060592**
Status : **Answered**
Chosen Option : **1**

Q.14 Select the option that expresses the given sentence in active voice.

Let the farewell be bidden to our seniors.

Ans ✗ 1. We should be bidden farewell by our seniors.

✗ 2. Our seniors should bid farewell to us.

✓ 3. Let us bid farewell to our seniors.

✗ 4. Our seniors should be bidden farewell.

Question ID : **26433072471**
Status : **Answered**
Chosen Option : **3**

Q.15 Rearrange the parts of the sentence in correct order.
The nanostructures on the
P. with added, or "doped," iron and phosphor
Q. surface made of nickel selenide
R. offers the high performance and stability
S. that are needed for industrial-scale electrolysis

Ans ✔ 1. QPRS

✘ 2. QRSP

✘ 3. RPQS

✘ 4. SPQR

Q.16 Select the most appropriate collocating word to fill in the blank.

I listened to him with_____ attention.

Ans ✘ 1. hefty

✘ 2. massive

✔ 3. rapt

✘ 4. vast

Q.17 Parts of the following sentence have been given as options. Select the option that contains a grammatical error. If you don't find any error, mark 'No error' as your answer.

Amla juice / is rich with / Vitamin C. / no error

Ans ✘ 1. Vitamin C.

✘ 2. Amla juice

✘ 3. No error

✔ 4. is rich with

Q.18 Select the correct indirect form of the given sentence.
Kavya said to her husband, "I don't mind being a busy woman."

Ans ✘ 1. Kavya told her husband that she had not mind being a busy woman.

✘ 2. Kavya told her husband that she do not mind being a busy woman.

✘ 3. Kavya said to her husband she did not mind being a busy woman.

✔ 4. Kavya told her husband that she did not mind being a busy woman.

Q.19 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.
P. The award is named after Alfred Nobel, the Swedish inventor of dynamite.
Q. A Nobel Prize is an award that is given to someone whose work has benefitted society.
R. This award is given in six categories, and medicine is one of those categories.
S. This year Professors David Julius and Ardem Petapoutian have won this prize for medicine.

Ans ✗ 1. SPQR

✗ 2. PQSR

✗ 3. SQRP

✓ 4. QPRS

Question ID : **264330104706**
Status : **Answered**
Chosen Option : **4**

Q.20 Select the most appropriate option to fill in the blank.

They hired her to increase sales, but her strategies failed to _____.

Ans ✓ 1. move the needle

✗ 2. burn bridges

✗ 3. spill the beans

✗ 4. get a second wind

Question ID : **26433060315**
Status : **Answered**
Chosen Option : **3**

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
We believe our value is in direct proportion to the value of our accomplishments. If we cannot accomplish certain results, we tend to feel (1)_____ about ourselves. Some of us try too hard and become workaholics and over-achievers. With a few genuine feelings of self-worth, we try to create some and prove that we are somebody by our successes and (2)_____.
Because our desire for perfection is so great, we (3)_____ to set unrealistic goals and place unreasonable demands on ourselves. Failing, rather than encouraging us to have realistic aspirations, only leads to a mere punishing round of self-blame and a resolve to drive ourselves harder next time. If we do not finally achieve our goals, we are (4)____; despite everything we have done, we still feel (5)_____ inside.

SubQuestion No : 21

Q.21 Select the most appropriate option to fill in blank number 1.

Ans ✗ 1. high

✗ 2. good

✓ 3. low

✗ 4. better

Question ID : **26433086404**
Status : **Answered**
Chosen Option : **3**

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

We believe our value is in direct proportion to the value of our accomplishments. If we cannot accomplish certain results, we tend to feel (1)_____ about ourselves. Some of us try too hard and become workaholics and over-achievers. With a few genuine feelings of self-worth, we try to create some and prove that we are somebody by our successes and (2)_____. Because our desire for perfection is so great, we (3)_____ to set unrealistic goals and place unreasonable demands on ourselves. Failing, rather than encouraging us to have realistic aspirations, only leads to a mere punishing round of self-blame and a resolve to drive ourselves harder next time. If we do not finally achieve our goals, we are (4)_____; despite everything we have done, we still feel (5)_____ inside.

SubQuestion No : 22

Q.22 Select the most appropriate option to fill in blank number 2.

Ans   ✗ 1. anxiety

✗ 2. obstacles

✗ 3. actions

✔ 4. achievements

Question ID : **26433086405**
Status : **Answered**
Chosen Option : **4**

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

We believe our value is in direct proportion to the value of our accomplishments. If we cannot accomplish certain results, we tend to feel (1)_____ about ourselves. Some of us try too hard and become workaholics and over-achievers. With a few genuine feelings of self-worth, we try to create some and prove that we are somebody by our successes and (2)_____. Because our desire for perfection is so great, we (3)_____ to set unrealistic goals and place unreasonable demands on ourselves. Failing, rather than encouraging us to have realistic aspirations, only leads to a mere punishing round of self-blame and a resolve to drive ourselves harder next time. If we do not finally achieve our goals, we are (4)_____; despite everything we have done, we still feel (5)_____ inside.

SubQuestion No : 23

Q.23 Select the most appropriate option to fill in blank number 3.

Ans   ✗ 1. come

✔ 2. tend

✗ 3. wish

✗ 4. crave

Question ID : **26433086406**
Status : **Answered**
Chosen Option : **2**

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

We believe our value is in direct proportion to the value of our accomplishments. If we cannot accomplish certain results, we tend to feel (1)_____ about ourselves. Some of us try too hard and become workaholics and over-achievers. With a few genuine feelings of self-worth, we try to create some and prove that we are somebody by our successes and (2)_____. Because our desire for perfection is so great, we (3)_____ to set unrealistic goals and place unreasonable demands on ourselves. Failing, rather than encouraging us to have realistic aspirations, only leads to a mere punishing round of self-blame and a resolve to drive ourselves harder next time. If we do not finally achieve our goals, we are (4)_____; despite everything we have done, we still feel (5)_____ inside.

SubQuestion No : 24

Q.24 Select the most appropriate option to fill in blank number 4.

Ans ✔ 1. disappointed

✘ 2. flattered

✘ 3. protected

✘ 4. glad

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

We believe our value is in direct proportion to the value of our accomplishments. If we cannot accomplish certain results, we tend to feel (1)_____ about ourselves. Some of us try too hard and become workaholics and over-achievers. With a few genuine feelings of self-worth, we try to create some and prove that we are somebody by our successes and (2)_____. Because our desire for perfection is so great, we (3)_____ to set unrealistic goals and place unreasonable demands on ourselves. Failing, rather than encouraging us to have realistic aspirations, only leads to a mere punishing round of self-blame and a resolve to drive ourselves harder next time. If we do not finally achieve our goals, we are (4)_____; despite everything we have done, we still feel (5)_____ inside.

SubQuestion No : 25

Q.25 Select the most appropriate option to fill in blank number 5.

Ans ✘ 1. satisfied

✔ 2. empty

✘ 3. lively

✘ 4. honoured

Combined Graduate Level Examination Tier I 2022

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Exam Time	9:00 AM - 10:00 AM
Subject	Combined Graduate Level Examination Tier I 2022

Section : **General Intelligence and Reasoning**

Q.1 Three different positions of the same dice are shown (figures 1 to 3). Find the number on the face opposite to the face having '1'.
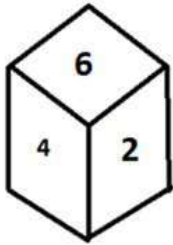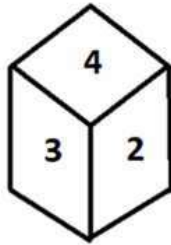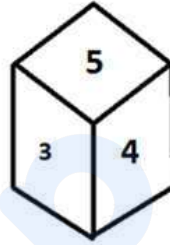

figure 1   figure 2   figure 3

Ans   ✗ 1. 6

    ✓ 2. 4

    ✗ 3. 5

    ✗ 4. 3

Question ID : 26433070246
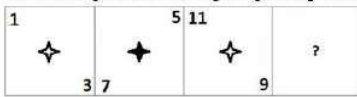Status : **Answered**
Chosen Option : **2**

Q.2 Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown below.

Ans   ✓ 1. TƧIMOИOƆƎ

    ✗ 2. ƎOƆИOMIƧT

    ✗ 3. ƎOƆИƧMIƧT

    ✗ 4. TƧMIƧИƆOƎ

Question ID : 26433067821
Status : **Answered**
Chosen Option : **1**

Q.3 Select the figure from among the given options that can replace the question mark (?) in the following series.

Ans

✗ 1.

✗ 2.

✔ 3.

✗ 4.

Question ID : **26433057858**
Status : **Answered**
Chosen Option : **3**

Q.4 In a certain code language, 'MOBILE' is written as 'PRELOH' and 'SILENT' is written as 'VLOHQW', how will 'PAINTING' be written in that language?

Ans ✗ 1. SDLQVKPI

✔ 2. SDLQWLQJ

✗ 3. RCKPWLQJ

✗ 4. RCKPVKPI

Question ID : **26433067770**
Status : **Answered**
Chosen Option : **2**

Q.5 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)
(36, 90, 18)
(15, 35, 8)

Ans ✔ 1. (14, 45, 5)

✗ 2. (14, 42, 7)

✗ 3. (13, 78, 6)

✗ 4. (12, 60, 8)

Question ID : **26433069244**
Status : **Not Answered**
Chosen Option : **--**

Q.6 If P + Q means that P is the mother of Q, P ÷ Q means that P is the father of Q, P – Q means that P is the sister of Q, then which of the following expression shows that A is the maternal grandfather of C?

Ans ✗ 1. B ÷ A + C

✗ 2. A – B ÷ C

✗ 3. A + B ÷ C

✓ 4. A ÷ B + C

Q.7 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
ROAR : QZNQ :: HEAR : QZDG :: DAMP : ?

Ans ✗ 1. MPAD

✓ 2. OLZC

✗ 3. BCOA

✗ 4. PMAD

Q.8 By Interchanging the given two numbers which of the following equation will be not correct?
5 and 9

Ans ✗ 1. 9 × 4 + 5 – 8 ÷ 2 = 25

✓ 2. 9 – 5 × 4 + 6 ÷ 3 = –30

✗ 3. 9 + 7 × 8 ÷ 4 – 5 = 10

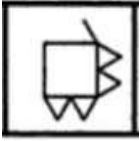✗ 4. 9 – 4 × 5 + 6 ÷ 2 = –28

Q.9 Select the figure from among the given options that can replace the question mark
(?) in the following series.

Ans

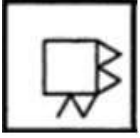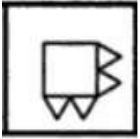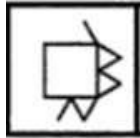✗ 1.

✗ 2.

✗ 3.

✔ 4.
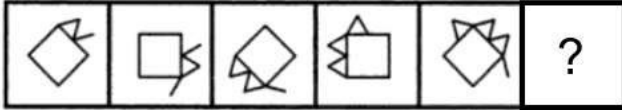
Q.10 Select the set in which the numbers are related in the same way as are the numbers of
the following set.
(NOTE : Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as
adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1
and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
(452, 50, 63)
(260, 35, 30)

Ans   ✗ 1. (330, 30, 45)

✗ 2. (260, 30, 25)

✔ 3. (260, 50, 15)

✗ 4. (230, 15, 45)

Q.11 Three of the following letter-clusters are alike in some manner and hence form a
group. Which letter-cluster does not belong to that group?

Ans   ✔ 1. CGB

✗ 2. FYI

✗ 3. RKU

✗ 4. KDN

Q.12 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 / 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)
(12, 42, 7)
(13, 52, 8)

Ans   ✖ 1. (8, 7, 43)

✖ 2. (7, 12, 6)

✖ 3. (9, 26, 8)

✔ 4. (9, 18, 4)

Question ID : 26433079123
Status : **Answered**
Chosen Option : **4**

Q.13 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
WINDOW : XFOELX :: TICKET : UFDLBU :: REGION : ?

Ans   ✔ 1. SBHFLO

✖ 2. SHFKLO

✖ 3. BHFDLO

✖ 4. HFSOKL

Question ID : 26433069021
Status : **Answered**
Chosen Option : **1**

Q.14 Which of the following letter-clusters will replace the question mark (?) in the given series?
DAJ, GEL, JIN, MMP, ?

Ans   ✖ 1. PRS

✖ 2. QPU

✖ 3. QRT

✔ 4. PQR

Question ID : 26433057992
Status : **Answered**
Chosen Option : **4**

Q.15 Which two signs and two numbers should be interchanged in the following equation to make it correct?
14 × 6 ÷ 12 + 15 − 9 = 203

Ans   ✔ 1. 15 , 6 , + , ÷

✖ 2. 12 , 15 , − , ×

✖ 3. 12 , 9 , ÷ , −

✖ 4. 14 , 6 , ÷ , ×

Question ID : 26433085359
Status : **Answered**
Chosen Option : **1**

Q.16 Read the given statement(s) and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).
Statements:
Some bulbs are switches.
No switch is a vase.
All fans are switches.
Conclusions:
I. Some bulbs being fans is a possibility.
II. No fan is a vase.
III. All switches are fans.
IV. No bulb is a vase.

Ans ✗ 1. Only Conclusions II and III follow

✓ 2. Only Conclusions I and II follow

✗ 3. Only Conclusions I, II and IV follow

✗ 4. Only Conclusion I follows

Q.17 A # B means 'A is the mother of B'.
A @ B means 'A is the son of B'.
A & B means 'A is the brother of B'.
A % B means 'A is the wife of B'.
If W # Q @ T & Y @ M % K, then how is K related to W?

Ans ✗ 1. Father

✓ 2. Father-in-law

✗ 3. Brother-in-law

✗ 4. Brother

Q.18 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. Some W are F.
II. Some R are F.
Conclusion:
I. Some R are not W.
II. No W is R.

Ans ✗ 1. Only conclusion I follows

✗ 2. Both conclusions I and II follows

✗ 3. Only conclusion II follows

✓ 4. Neither conclusion follows

Q.19 In a certain code language, 'BREAK' is written as '2182111' and 'COLOUR' is written as '34124518'. How will 'TRING' be written in that language?

Ans
   ✗ 1. 20181347

   ✗ 2. 20189147

   ✔ 3. 20183147

   ✗ 4. 20183174

Q.20 Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.
20 * 2 * 50 * 5 * 115

Ans
   ✗ 1. −, ×, =, +

   ✗ 2. +, ×, =, −

   ✔ 3. +, ×, −, =

   ✗ 4. −, ×, +, =

Q.21 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1- Expensive
2- Expedition
3- Experience
4- Expel
5- Expenditure

Ans
   ✔ 1. 2, 4, 5, 1, 3

   ✗ 2. 2, 4, 5, 3, 1

   ✗ 3. 5, 2, 1, 4, 3

   ✗ 4. 4, 2, 5, 1, 3

Q.22 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
RMTS, WGAK, BAHC, GUOU, ?

Ans
   ✗ 1. LMNO

   ✔ 2. LOVM

   ✗ 3. LOVQ

   ✗ 4. LMNQ

Q.23 Select the option in which the given figure is embedded (rotation is NOT allowed).

Ans

✘ 1.

✔ 2.

✘ 3.

✘ 4.
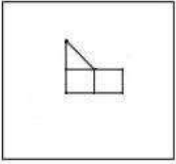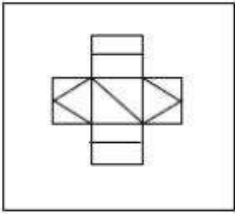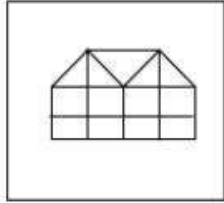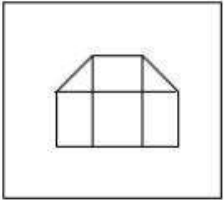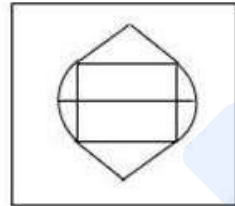
Q.24 In the following question, select the missing number from the given series.
1, 22, 44, 67, 91, ?

Ans ✔ 1. 116

✘ 2. 106

✘ 3. 115

✘ 4. 118

Q.25 In the following question, four number pairs are given. In each pair the number on left side of (–) is related to the number of the right side of (–) with some Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g.13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans ✗ 1. 7 – 71

✗ 2. 11 – 111

✗ 3. 8 – 81

✓ 4. 12 – 167

Question ID : **264330105064**
Status : **Answered**
Chosen Option : **4**

Section : **General Awareness**

Q.1 Any natural mass of mineral matter that makes up the earth's crust is _____.

Ans ✗ 1. Garbage

✓ 2. Rock

✗ 3. Stone

✗ 4. Fossil

Question ID : **264330105641**
Status : **Answered**
Chosen Option : **4**

Q.2 Rajashree Shirke was given which of the following prestigious dance awards of 2013 for her excellence in Kathak?

Ans ✓ 1. Sangeet Natak Academy Award

✗ 2. Padma Shri

✗ 3. Kalidas Samman

✗ 4. National Film Award

Question ID : **26433074835**
Status : **Not Answered**
Chosen Option : **--**

Q.3 Who was the captain of the Indian hockey men's team at Olympic 2020?

Ans ✓ 1. Manpreet Singh

✗ 2. Amit Rohidas

✗ 3. Sreejesh Ravindran

✗ 4. Krishan B Pathak

Question ID : **26433071542**
Status : **Answered**
Chosen Option : **1**

Q.4 An exponent of Hindustani classical music, Gangubai Hangal was an eminent singer to have hailed from the _____ gharana of the Hindustani Khyal family.

Ans ✗ 1. Patiala

✓ 2. Kirana

✗ 3. Agra

✗ 4. Gwalior

Question ID : **26433054477**
Status : **Not Answered**
Chosen Option : **--**

Q.5 If we deduct depreciation from GNP the measure of aggregate income that we obtain is called _____.

Ans ✗ 1. Gross Domestic Product at market prices

✗ 2. Gross Domestic Product

✓ 3. Net National Product

✗ 4. Personal income

Question ID : **264330105362**
Status : **Answered**
Chosen Option : **3**

Q.6 The chemical formula of borax is _____.

Ans ✗ 1. $Na_2B_5O_7.10H_2O$

✓ 2. $Na_2B_4O_7.10H_2O$

✗ 3. $Na_2B_4O_7.5H_2O$

✗ 4. $Na_2B_4O_7.12H_2O$

Question ID : **26433066459**
Status : **Answered**
Chosen Option : **3**

Q.7 OYO partnered with the Jammu and Kashmir administration to launch a rural tourism initiative. What this initiative is called?

Ans ✗ 1. Weaving a Better Future

✓ 2. Crown of Incredible India

✗ 3. Shared Planet

✗ 4. United India

Question ID : **264330105291**
Status : **Answered**
Chosen Option : **3**

Q.8 Chief Minister Shramik Kalyan Prakalp scheme was launched by Amit Shah for women of _____.

Ans ✗ 1. Bihar

✓ 2. Tripura

✗ 3. Haryana

✗ 4. Jharkhand

Question ID : **264330105271**
Status : **Not Answered**
Chosen Option : **--**

Q.9 Players that stop dribbling in handball have to pass or shot within:

Ans ✗ 1. 5 second

✗ 2. 30 second

✗ 3. 10 second

✓ 4. 3 second

Q.10 Which of the following sequence is correct with respect to the Delhi Dynasties?

Ans ✗ 1. Khalji dynasty, Lodi dynasty, Sayyid dynasty

✗ 2. Tughluq dynasty, Khalji dynasty, Sayyid dynasty

✗ 3. Early Turkish Rulers, Rajput dynasties, Khalji dynasty

✓ 4. Rajput dynasties, Khalji dynasty, Tughluq dynasty

Q.11 Which of the following is NOT a classification of E-Commerce?

Ans ✗ 1. B2C (Business-to-Consumer)

✓ 2. D2D (Distributor-to-Distributor)

✗ 3. C2C (Consumer-to-Consumer)

✗ 4. B2B (Business-to-Business)

Q.12 _____ takes oath as new Meghalaya Governor in October 2022.

Ans ✓ 1. B.D. Mishra

✗ 2. A K Anil Kumar

✗ 3. Prashant Kumar

✗ 4. Sunil Barthwal

Q.13 There are _____ main types of cell division.

Ans ✗ 1. 4

✓ 2. 2

✗ 3. 3

✗ 4. 5

Q.14 The first session of Indian National congress was held at _____.

Ans
✔ 1. Bombay

✘ 2. Madras

✘ 3. Calcutta

✘ 4. Surat

Question ID : **264330105563**
Status : **Answered**
Chosen Option : **1**

Q.15 An electric current is expressed by a unit called _____.

Ans
✘ 1. meter

✔ 2. ampere

✘ 3. watt

✘ 4. joule

Question ID : **26433066453**
Status : **Answered**
Chosen Option : **2**

Q.16 How thick is the lithosphere?

Ans
✘ 1. 25 to 45 kilometres

✘ 2. 10 to 25 kilometres

✔ 3. 10 to 200 kilometres

✘ 4. 5 to 10 kilometres

Question ID : **26433064463**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.17 Who among the following is related to the musical instrument Santoor?

Ans
✔ 1. Pandit Shivkumar Sharma

✘ 2. Pandit Ravishankar Prasad

✘ 3. Pandit Hariprasad Chaurasia

✘ 4. Pandit Jasraj

Question ID : **26433074114**
Status : **Answered**
Chosen Option : **1**

Q.18 Chemical formula of magnesium oxide is _____.

Ans
✘ 1. $MgCO^3$

✘ 2. MgO^2

✔ 3. MgO

✘ 4. $Mg(OH)^2$

Question ID : **264330105472**
Status : **Answered**
Chosen Option : **3**

Q.19 The Constitution forbids employment of children below the age of _____ years in dangerous jobs like factories and mines.

Ans ✗ 1. 15

✓ 2. 14

✗ 3. 16

✗ 4. 18

Question ID : **26433064829**
Status : **Answered**
Chosen Option : **2**

Q.20 Which of the following is not a natural fibre?

Ans ✗ 1. Linen

✗ 2. Cotton

✓ 3. Rayon

✗ 4. Jute

Question ID : **264330105618**
Status : **Answered**
Chosen Option : **3**

Q.21 Which of the following statements is NOT correct with reference to the election of the President of India?

Ans ✗ 1. He/She is indirectly elected by the elected MLAs and MPs.

✗ 2. The President is elected for a period of five years.

✓ 3. All doubts and disputes in connection with the President's election can be inquired into and decided by both the Supreme Court and the High Courts.

✗ 4. The election takes place in accordance with the principle of proportional representation.

Question ID : **26433072914**
Status : **Answered**
Chosen Option : **3**

Q.22 Which of the following is celebrated as the New Year in Tamil Nadu?

Ans ✗ 1. Pongal

✓ 2. Puthandu

✗ 3. Ugadi

✗ 4. Onam

Question ID : **26433071697**
Status : **Answered**
Chosen Option : **2**

Q.23 In the early eleventh century, the Chola king Rajendra I built a Shiva temple and filled it with a Sun-pedestal seized from the _____.

Ans ✗ 1. Palas

✗ 2. Vakatakas

✓ 3. Chalukyas

✗ 4. Kalingas

Question ID : **264330105439**
Status : **Not Answered**
Chosen Option : **--**

Q.24 Which of the following offices was NOT held by the poet Harishena?

Ans   ✗ 1. Sandhi-vigrahika

   ✗ 2. Maha-danda-nayaka

   ✓ 3. Nagara-shreshthi

   ✗ 4. Kumar-amatya

Q.25 _____ is found in association with rocks composed of calcium carbonates?

Ans   ✓ 1. Limestone

   ✗ 2. Gold

   ✗ 3. Iron

   ✗ 4. Diamond

Section : **Quantitative Aptitude**

Q.1 A car starts from point A towards point B, travelling at the speed of 20 km/h. $1\frac{1}{2}$ hours later, another car starts from point A and travelling at the speed of 30 km/h and reaches $2\frac{1}{2}$ hours before the first car. Find the distance between A and B.

Ans   ✗ 1. 300 km

   ✓ 2. 240 km

   ✗ 3. 260 km

   ✗ 4. 280 km

Q.2 The difference between a discount of 25% and two successive discounts of 15% and 10% on a certain bill was ₹25. Find the amount of the bill.

Ans   ✗ 1. ₹3,333.33

   ✗ 2. ₹2,500

   ✗ 3. ₹833.33

   ✓ 4. ₹1,666.67

Q.3 A trader has a weighing balance that shows 1300 g for a kg. He further marks up his cost price by 15%. The net profit percentage is:

Ans ✗ 1. 48.5%

✓ 2. 49.5%

✗ 3. 50%

✗ 4. 45%

Q.4 The nearest number which is greater to 87501, and is completely divisible by 765 is :

Ans ✗ 1. 88975

✓ 2. 87975

✗ 3. 87966

✗ 4. 87775

Q.5

Simplify: $\dfrac{cosA}{1+tanA} - \dfrac{sinA}{1+cotA}$

Ans ✗ 1. tanA

✓ 2. cosA − sinA

✗ 3. cosA.sinA

✗ 4. cosA + sinA

Q.6 In triangle ABC, the bisector of angle BAC cuts the side BC at D. If AB = 10 cm, and AC = 14 cm, then what is BD : BC ?

Ans ✗ 1. 10 : 7

✓ 2. 5 : 7

✗ 3. 7 : 5

✗ 4. 7 : 10

Q.7 The table given below shows the number of people in different states.

States	Number of people
A	174
B	200
C	144
D	195
E	280

What is the ratio of number of people in state C to the number of people in state E?

Ans   ✗ 1. 31 : 17

     ✗ 2. 35 : 18

     ✓ 3. 18 : 35

     ✗ 4. 17 : 29

Q.8 ₹5,000 is divided into two parts such that if one part is invested at 4% and the other at 5%, then the whole annual interest from both the sums is ₹223. How much was invested at 4%?

Ans   ✗ 1. ₹2,600

     ✓ 2. ₹2,700

     ✗ 3. ₹2,400

     ✗ 4. ₹2,300

Q.9 The table given below shows the number of truck sold by six companies.

Companies	Truck
J	40
K	60
L	80
M	110
N	120
O	80

Number of trucks sold by L are what percent of number of trucks sold by J?

Ans   ✗ 1. 100 percent

     ✗ 2. 250 percent

     ✓ 3. 200 percent

     ✗ 4. 150 percent

Q.10 If the volume of a sphere is 24,416.64 cm^3, find its surface area (take π=3.14) correct to two places of decimal.

Ans ✗ 1. 3069.55 cm^2

✓ 2. 4069.44 cm^2

✗ 3. 5069.66 cm^2

✗ 4. 6069.67 cm^2

Q.11

$$\frac{1}{1+\cos(90^0-\theta)} + \frac{1}{1-\cos(90^0-\theta)} = \underline{\hspace{1cm}}.$$

Ans ✓ 1. $2\sec^2\theta$

✗ 2. 1

✗ 3. 0

✗ 4. $2\tan^2\theta$

Q.12 If $\left(4a + \frac{5}{a} + 5\right) = 14$, what is the value of $\left(16a^2 + \frac{25}{a^2}\right)$?

Ans ✗ 1. 25

✗ 2. 36

✓ 3. 41

✗ 4. 40

Q.13 Study the following table and answer the question that follows.

A school has four sections A, B, C and D of Class IX students.

The results of Science and Mathematics examinations are shown in the following table.

RESULT	No. of Students			
	Section A	Section B	Section C	Section D
Failed in both	24	25	18	20
Failed in Science but passed in Mathematics	14	12	10	15
Passed in Science but failed in Mathematics	7	6	8	10
Passed in both	63	60	56	55

What percentage of students of section C Passed in Science but failed in Mathematics?

Ans ✔ 1. 8.70%

✘ 2. 9.20%

✘ 3. 9.85%

✘ 4. 10.30%

Question ID : 26433076240
Status : **Answered**
Chosen Option : **1**

Q.14 Ruchi, Khushi and Teju can do a piece of work in 30, 40 and 60 days respectively. In how many days can Ruchi do the work, if she is assisted by both Khushi and Teju on every third day?

Ans ✘ 1. $\dfrac{550}{12}$ days

✔ 2. $\dfrac{85}{4}$ days

✘ 3. $\dfrac{71}{2}$ days

✘ 4. $\dfrac{360}{17}$ days

Question ID : 26433080056
Status : **Answered**
Chosen Option : **2**

Q.15 If the diameter of a sphere is 3.5 cm, then what is the total surface area of the sphere?

Ans ✘ 1. 45.75 cm^2

✘ 2. 42.6 cm^2

✔ 3. 38.5 cm^2

✘ 4. 34.25 cm^2

Question ID : 264330105845
Status : **Answered**
Chosen Option : **3**

Q.16 Ram loses $12\frac{1}{2}$% of his money and after spending 75% of the remainder, is left with ₹630. How much money did Ram have initially?

Ans ✗ 1. ₹2,080

✓ 2. ₹2,880

✗ 3. ₹2,205

✗ 4. ₹2,808

Q.17 If $x - \frac{1}{x} = 13$, what will be the value of $x^4 + \frac{1}{x^4}$?

Ans ✗ 1. 28561

✗ 2. 29243

✗ 3. 27887

✓ 4. 29239

Q.18 Study the given chart and answer the question that follows.

The chart shows the quantities of machines (M1, M2, M3) available in different stores (S1, S2, S3, S4).

Which stores have more number of M2 machines than the average number of M2 machines per store?

Ans ✗ 1. S2 and S4

✗ 2. S1 and S3

✗ 3. S2 and S3

✓ 4. S1 and S4

Q.19 If a : b = c : d, then which of the following ratio is equal to a : c?

Ans
✗ 1. a : d

✗ 2. b : c

✗ 3. a + d : b + c

✔ 4. a + b : c + d

Question ID : 26433066174
Status : **Answered**
Chosen Option : **4**

Q.20 The factors of $x^4 + x^2 + 25$ are:

Ans
✗ 1. $(x^2 + 3x - 5)(x^2 - 3x + 5)$

✔ 2. $(x^2 + 3x + 5)(x^2 - 3x + 5)$

✗ 3. $(x^2 - 3x + 5)(x^2 - 3x + 5)$

✗ 4. $(x^2 + 3x + 5)(x^2 + 3x + 5)$

Question ID : 26433076064
Status : **Answered**
Chosen Option : **2**

Q.21 The area of a sector of a circle is 66cm^2 and the angle of the sector is 60°. Find the radius of the circle.

Ans
✗ 1. $5\sqrt{15}$ cm

✗ 2. $6\sqrt{14}$ cm

✗ 3. $7\sqrt{19}$ cm

✔ 4. $3\sqrt{14}$ cm

Question ID : 26433066334
Status : **Answered**
Chosen Option : **4**

Q.22 Calculate the HCF of $\frac{12}{5}, \frac{14}{15}$ and $\frac{16}{17}$.

Ans
✗ 1. $\frac{4}{255}$

✗ 2. $\frac{3}{255}$

✔ 3. $\frac{2}{255}$

✗ 4. $\frac{1}{255}$

Question ID : 26433080077
Status : **Answered**
Chosen Option : **3**

Q.23 If (cos q + sin q) = 31/25, then what will be the value of $\cos^2 q$?

Ans ✗ 1. 522/625

✗ 2. 512/625

✗ 3. 513/625

✓ 4. 527/625

Question ID : **264330105903**
Status : **Answered**
Chosen Option : **4**

Q.24 The average marks of 60 students in a class are 62. The average marks of boys and girls in that subject are 60 and 65, respectively. The number of boys in the class is:

Ans ✓ 1. 36

✗ 2. 25

✗ 3. 41

✗ 4. 31

Question ID : **26433075381**
Status : **Answered**
Chosen Option : **1**

Q.25 Select the correct option with respect to the given statement.
Two tangents are drawn at the end of the diameter of a circle.

Ans ✗ 1. They intersect each other.

✗ 2. They pass through origin.

✓ 3. They are parallel to each other.

✗ 4. They are perpendicular to each other.

Question ID : **26433082921**
Status : **Answered**
Chosen Option : **4**

Section : **English Comprehension**

Q.1 Fill in the blank with the correct collocation.

Motorists committing this infraction are _____ fined.

Ans ✗ 1. wholly

✗ 2. hardly

✗ 3. slowly

✓ 4. heavily

Question ID : **26433090501**
Status : **Answered**
Chosen Option : **4**

Q.2 Select the most appropriate meaning of the given idiom.
Fair and square

Ans ✓ 1. Honestly

✗ 2. Fair-skinned

✗ 3. Being vague

✗ 4. Good looking

Question ID : **26433070801**
Status : **Answered**
Chosen Option : **1**

Q.3 Select the most appropriate option to substitute the underlined segment in the given sentence.

I <u>used to swim across</u> the river when I was young.

Ans ✗ 1. will swim across

✗ 2. was swimming across

✓ 3. could swim across

✗ 4. can swim across

Question ID : **26433073839**
Status : **Answered**
Chosen Option : **3**

Q.4 Select the option that contains a grammatical error in the underlined portion.

I have never played any game of side this track during the season.

Ans ✗ 1. I have never played any game off side this track <u>during the season</u>.

✓ 2. I have never played any game <u>of side this track</u> during the season.

✗ 3. <u>I have never played</u> any game off side this track during the season.

✗ 4. I have never played <u>any game</u> off side this track during the season.

Question ID : **26433088586**
Status : **Answered**
Chosen Option : **2**

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

We decided to _____ as we were missing him a lot.

Ans ✗ 1. give a visit

✗ 2. take a visit

✗ 3. bring in a visit

✓ 4. pay him a visit

Question ID : **26433091844**
Status : **Answered**
Chosen Option : **4**

Q.6 Select the correct indirect form of the given sentence.
Latika said to him, "I got a hefty discount on this television."

Ans ✗ 1. Latika told him that she has got a hefty discount on that television.

✗ 2. Latika told him that she is getting a hefty discount on that television.

✓ 3. Latika told him that she had got a hefty discount on that television.

✗ 4. Latika told him that she has got a hefty discount on this television.

Question ID : **264330104602**
Status : **Answered**
Chosen Option : **3**

Q.7 Select the option that can be used as a one-word substitute for the given group of words.

One who mediates in a deal or complex situation

Ans ✗ 1. Equaliser

✗ 2. Solicitor

✗ 3. Pacifier

✓ 4. Negotiator

Question ID : **26433072312**
Status : **Answered**
Chosen Option : **4**

Q.8 Select the most appropriate ANTONYM of the given word.

Ambition

Ans ✗ 1. Intent

✗ 2. Anxiety

✗ 3. Object

✓ 4. Laziness

Question ID : **26433060694**
Status : **Answered**
Chosen Option : **4**

Q.9 Select the most appropriate synonym of the word 'stagnant' from the following sentence.

Reeta was motionless after knowing that her brother had become mentally unstable after seeing the fatal accident on Tuesday night.

Ans ✓ 1. Motionless

✗ 2. Fatal

✗ 3. Unstable

✗ 4. Accident

Question ID : **26433072267**
Status : **Answered**
Chosen Option : **1**

Q.10 Select the most appropriate option that can substitute the underlined segment in the given sentence.

<u>Last before year,</u> Shirley got very good grades.

Ans ✗ 1. The last year before

✗ 2. Before last year

✓ 3. The year before last

✗ 4. Before year last

Question ID : **26433088745**
Status : **Answered**
Chosen Option : **2**

Q.11 Select the correct passive form of the given sentence.
The new owners hired a lot of new servers.

Ans ✔ 1. A lot of new servers were hired by the new owners.

✘ 2. A lot of new servers are being hired by the new owners.

✘ 3. A lot of new servers are hired by the new owners.

✘ 4. A lot of new servers had been hired by the new owners.

Question ID : **264330104559**
Status : **Answered**
Chosen Option : **1**

Q.12 Select the sentences that contains no spelling errors.

Ans ✘ 1. I heard raucouos laughter from the next room.

✘ 2. I heard raocous laughter from the next room.

✘ 3. I heard raucus laughter from the next room.

✔ 4. I heard raucous laughter from the next room.

Question ID : **26433070692**
Status : **Answered**
Chosen Option : **4**

Q.13 Select the most appropriate synonym of the bracketed word to fill in the blank.

There is a huge generation _____ (void) between Arun and his grandparents.

Ans ✘ 1. traditions

✔ 2. gap

✘ 3. memory

✘ 4. experience

Question ID : **26433060686**
Status : **Answered**
Chosen Option : **2**

Q.14 Select the most appropriate synonym of the underlined word in the given sentence.

The perils of smoking tobacco can never be ignored.

Ans ✘ 1. Delights

✘ 2. Benefits

✔ 3. Hazards

✘ 4. Humiliations

Question ID : **26433071961**
Status : **Answered**
Chosen Option : **3**

Q.15 Select the most appropriate option that can substitute the underlined segment in the given sentence.
I am been working here for the past ten years.

Ans ✔ 1. have been working here

✘ 2. is been working here

✘ 3. was been working here

✘ 4. had been working here

Question ID : **26433097031**
Status : **Answered**
Chosen Option : **1**

Q.16 Select the most appropriate option to fill in the blank.

Seeing my messy room, my mother taught me to keep everything in order. Now my room is _____.

Ans ✗ 1. on demand

✗ 2. of no avail

✔ 3. spick and span

✗ 4. high and dry

Question ID : 26433070547	
Status : **Answered**	
Chosen Option : **3**	

Q.17 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

There is a whole world / out there that / is invisible from / the naked eye.

Ans ✗ 1. the naked eye

✔ 2. is invisible from

✗ 3. There is a whole world

✗ 4. out there that

Question ID : 26433088944	
Status : **Not Attempted and Marked For Review**	
Chosen Option : **--**	

Q.18 Select the option that expresses the given sentence in passive voice.

Had they not cleared the exam?

Ans ✗ 1. Is the exam not been cleared by them?

✗ 2. Have the exam not been cleared by them?

✗ 3. Was the exam not been cleared by them?

✔ 4. Had the exam not been cleared by them?

Question ID : 26433073245	
Status : **Answered**	
Chosen Option : **4**	

Q.19 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.
P. In Tokyo, they built an expressway linking the international airport in Haneda to the centre, and widened some of the city's major arteries.
Q. These infrastructure improvements helped to bring about the Japanese economic miracle over the next couple of decades.
R. Tokyo 2020 was supposed to be a great economic stimulus, replicating the achievements of Tokyo 1964.
S. It was thanks to hosting that Olympics that Japan invested in infrastructure such as the famous Shinkansen bullet train .

Ans ✔ 1. RSPQ

✗ 2. QPRS

✗ 3. SRQP

✗ 4. PQRS

Question ID : 264330104738	
Status : **Answered**	
Chosen Option : **1**	

Q.20 In the given sentence the underlined word may have been incorrectly spelt. Identify the option that rectifies the spelling. If there is no error in spelling, select 'No error'.

Getting a compliment from her husband was a rare <u>occurrance</u> in Rashmila's life.

Ans ✅ 1. occurrence

✖ 2. ocurrance

✖ 3. No error

✖ 4. ocurrancce

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Academic life has (1) _____ demanding for students as a result of different internal and external expectations. Teenagers are especially (2)_____ to academic stress because they go through so many personal and social changes. As a result, designing effective and efficient (3) _____ solutions requires a thorough understanding of the causes and consequences of academic stress. Exams are one of the (4)_____ aspects of anyone's life. Exams are stressful for everyone, whether they are students or adults because everyone wants to perform well and no one wants to fail as to avoid (5) _____ in future.

SubQuestion No : 21

Q.21 Select the most appropriate option to fill in blank number 1.

Ans ✖ 1. becomes

✖ 2. became

✅ 3. become

✖ 4. becoming

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Academic life has (1) _____ demanding for students as a result of different internal and external expectations. Teenagers are especially (2)_____ to academic stress because they go through so many personal and social changes. As a result, designing effective and efficient (3) _____ solutions requires a thorough understanding of the causes and consequences of academic stress. Exams are one of the (4)_____ aspects of anyone's life. Exams are stressful for everyone, whether they are students or adults because everyone wants to perform well and no one wants to fail as to avoid (5) _____ in future.

SubQuestion No : 22

Q.22 Select the most appropriate option to fill in blank number 2.

Ans ✖ 1. scared

✅ 2. prone

✖ 3. liable

✖ 4. resistance

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Academic life has (1) _____ demanding for students as a result of different internal and external expectations. Teenagers are especially (2)_____ to academic stress because they go through so many personal and social changes. As a result, designing effective and efficient (3) _____ solutions requires a thorough understanding of the causes and consequences of academic stress. Exams are one of the (4)_____ aspects of anyone's life. Exams are stressful for everyone, whether they are students or adults because everyone wants to perform well and no one wants to fail as to avoid (5) _____ in future.

SubQuestion No : 23

Q.23 Select the most appropriate option to fill in blank number 3.

Ans ✖ 1. collateral

   ✔ 2. intervention

   ✖ 3. convention

   ✖ 4. physical

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Academic life has (1) _____ demanding for students as a result of different internal and external expectations. Teenagers are especially (2)_____ to academic stress because they go through so many personal and social changes. As a result, designing effective and efficient (3) _____ solutions requires a thorough understanding of the causes and consequences of academic stress. Exams are one of the (4)_____ aspects of anyone's life. Exams are stressful for everyone, whether they are students or adults because everyone wants to perform well and no one wants to fail as to avoid (5) _____ in future.

SubQuestion No : 24

Q.24 Select the most appropriate option to fill in blank number 4.

Ans ✖ 1. more important

   ✖ 2. most eager

   ✔ 3. most crucial

   ✖ 4. more urgent

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Academic life has (1) _____ demanding for students as a result of different internal and external expectations. Teenagers are especially (2)_____ to academic stress because they go through so many personal and social changes. As a result, designing effective and efficient (3) _____ solutions requires a thorough understanding of the causes and consequences of academic stress. Exams are one of the (4)_____ aspects of anyone's life. Exams are stressful for everyone, whether they are students or adults because everyone wants to perform well and no one wants to fail as to avoid (5) _____ in future.

SubQuestion No : 25

Q.25 Select the most appropriate option to fill in blank number 5.

Ans ✅ 1. ambiguity

❌ 2. sneak

❌ 3. wanderlust

❌ 4. purpose