# Combined Graduate level Examination 2023 Tier I

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|---|---|
| Roll Number | |
| Candidate Name | |
| Venue Name | |
| Exam Date | 18/07/2023 |
| Exam Time | 9:00 AM - 10:00 AM |
| Subject | Combined Graduate Level Examination Tier I 2023 |

Section : **General Intelligence and Reasoning**

**Q.1** **Which two signs should be interchanged to make the given equation correct?**

**10 − 4 + 13 ÷ 15 × 3 = 71**

**Ans**

✗ 1. + and ×

✗ 2. − and ÷

✓ 3. ÷ and ×

✗ 4. − and ×

Question ID : **264330120856**
Status : **Answered**
Chosen Option : **3**

**Q.2** **Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.**
**BRU_TLP_RUI_LPBR_ITLPB_UIT_ _**

**Ans**

✗ 1. IBTRUPL

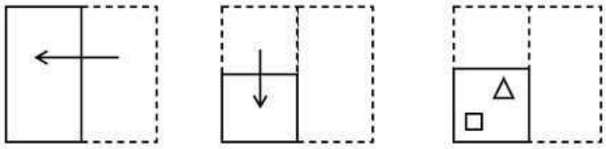
✗ 2. IBTUPLR

✗ 3. IBRUTLP

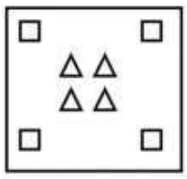
✓ 4. IBTURLP

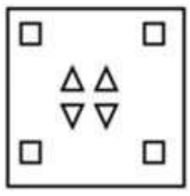
Question ID : **264330131038**
Status : **Answered**
Chosen Option : **4**

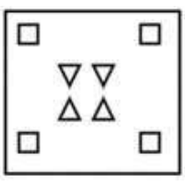
Q.3 A paper is folded and cut as shown below. How will it appear when unfolded?

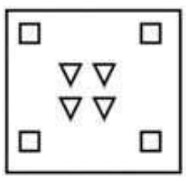


Ans

1. 

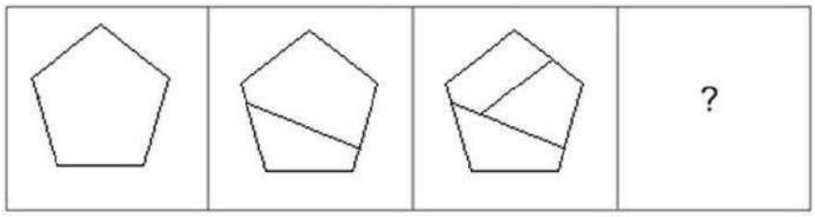
2. 

3. 

4. 

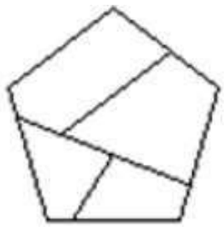
Question ID : **264330101179**
Status : **Answered**
Chosen Option : **3**

**Q.4** Select the figure that will come next in the following figure series.

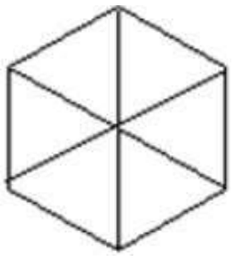



**Ans**

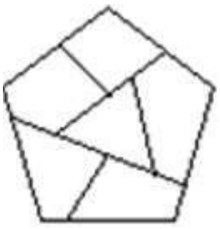
✔ 1.



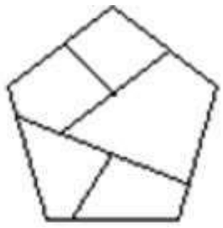
✘ 2.



✘ 3.



✘ 4.



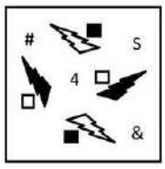
Question ID : **26433083102**
Status : **Answered**
Chosen Option : **1**

Q.5 **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 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.)**
**(16, 32, 54)**
**(29, 58, 80)**

Ans
1. (17, 35, 59)
2. (25, 50, 62)
3. (24, 48, 70)
4. (23, 46, 62)

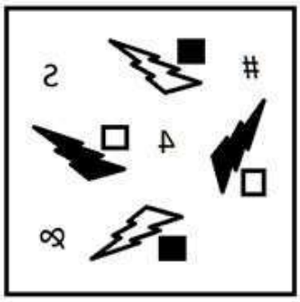
Question ID : **26433057071**
Status : **Answered**
Chosen Option : **3**

**Q.6** Select the correct mirror image from the following options, when the mirror is placed on the right side of the given figure.

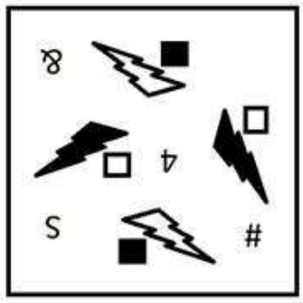


**Ans**

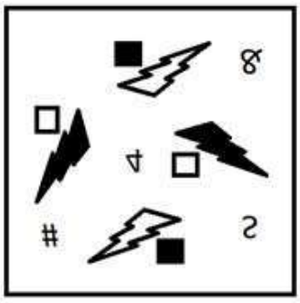
✗ 1.



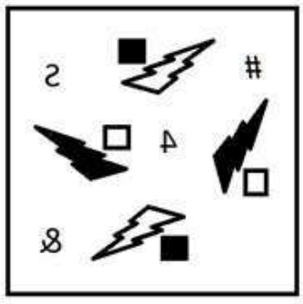
✗ 2.



✗ 3.



✓ 4.



Question ID : **264330103202**
Status : **Answered**
Chosen Option : **4**

Q.7 **Which of the following numbers will replace the question mark (?) in the given series?**
**108, 99, 88, ? , 60, 43**

Ans
✗ 1. 76
✓ 2. 75
✗ 3. 78
✗ 4. 77

Question ID : **26433090926**
Status : **Answered**
Chosen Option : **2**

Q.8 **Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.**
**PTXB**
**GKOS**
**HKNQ**
**MQUY**

Ans
✗ 1. PTXB
✗ 2. MQUY
✗ 3. GKOS
✓ 4. HKNQ

Question ID : **26433092612**
Status : **Answered**
Chosen Option : **4**

Q.9 **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. For 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.)**

**(9, 6, 25)**
**(14, 5, 29)**

Ans
✗ 1. (27, 8, 29)
✗ 2. (18, 4, 42)
✓ 3. (13, 9, 32)
✗ 4. (12, 8, 20)

Question ID : **264330131290**
Status : **Answered**
Chosen Option : **3**

Q.10 **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 metals are gold.**
**All jewellery are gold.**
**All gold are ornaments.**

**Conclusions:**
**I. Some ornaments are jewellery.**
**II. Some metals are jewellery.**
**III. All jewellery are ornaments.**

Ans
✔ 1. Only conclusions I and III follow
✘ 2. All conclusions follow
✘ 3. Only conclusions II and III follow
✘ 4. Only conclusions I and II follow

Question ID : **26433090911**
Status : **Answered**
Chosen Option : **1**

Q.11 **Looking at the picture on the wall, he said "My sister-in-law S's husband Q's son N had a sister R". How is S related to R?**

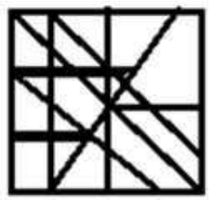
Ans
✘ 1. Daughter
✘ 2. Mother-in-law
✘ 3. Daughter-in-law
✔ 4. Mother

Question ID : **264330122392**
Status : **Answered**
Chosen Option : **4**

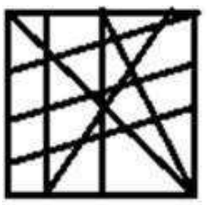
Q.12 Select the option figure in which the given figure is embedded (rotation is NOT allowed).

Ans

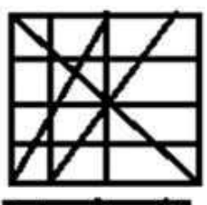
✗ 1.



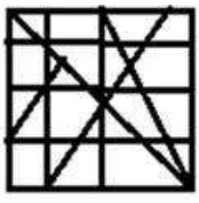
✗ 2.



✓ 3.



✗ 4.



Question ID : **26433067434**
Status : **Answered**
Chosen Option : **3**

Q.13 **Select the set in which the numbers are 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 /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.)**
**(36, 21, 35)**
**(43, 19, 53)**

Ans ✓ 1. (51, 34, 39)

✗ 2. (48, 37, 25)

✗ 3. (44, 20, 54)

✗ 4. (35, 22, 34)

Question ID : **264330134927**
Status : **Answered**
Chosen Option : **1**

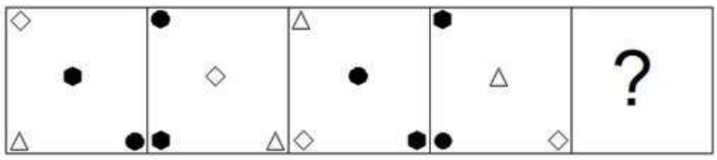
Q.14 **Choose one of the following correct combination of mathematical signs which can be filled sequentially to balance the following equation.**

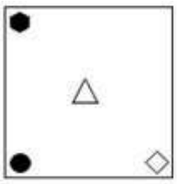
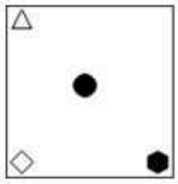
28 ⬡ 4 ⬡ 3 ⬡ 9 ⬡ 42 ⬡ 12

Ans
✗ 1. ÷, ×, −, =, ×
✗ 2. ÷, ×, =, +, +
✓ 3. ÷, ×, +, =, −
✗ 4. +, =, ÷, ×, +

Question ID : **264330122243**
Status : **Answered**
Chosen Option : **3**

Q.15 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 : **264330103133**
Status : **Answered**
Chosen Option : **2**

Q.16 **The second number in the given number pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) are followed in all the number pairs, EXCEPT one. Find that odd number pair.**

Ans
✗ 1. (15, 240)
✓ 2. (13, 180)
✗ 3. (11, 132)
✗ 4. (16, 272)

Question ID : **264330143679**
Status : **Answered**
Chosen Option : **2**

Q.17 **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.)**
**(5,32,7)**
**(4,30,14)**

Ans
✓ 1. (7, 60, 11)
✗ 2. (6, 65, 13)
✗ 3. (7, 50, 21)
✗ 4. (8, 60, 9)

Question ID : **264330117294**
Status : **Answered**
Chosen Option : **1**

Q.18 **Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?**
**CXW, EVU, GTS, IRQ, ?**

Ans
✗ 1. NOL
✗ 2. ONM
✗ 3. MNO
✓ 4. KPO

Question ID : **26433069529**
Status : **Answered**
Chosen Option : **4**

Q.19 **Each vowel in the word "CAPSULE" is changed to the previous letter in the English alphabetical series and each consonant is changed to the following letter in the English alphabetical series. In the newly formed word, how many alphabets are there in the English alphabetical series between the alphabet which is 3rd from the left and 3rd from the right?**

Ans
✗ 1. Three
✗ 2. Four
✗ 3. One
✓ 4. Two

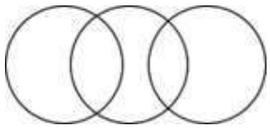
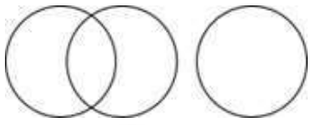
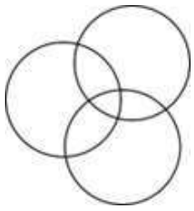
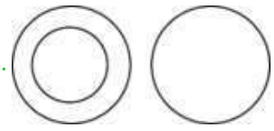
Question ID : **264330132070**
Status : **Answered**
Chosen Option : **3**

Q.20 'Dog' is related to 'Labrador' in the same way as 'Vegetable' is related to '_____'.

Ans
✔ 1. Capsicum
✘ 2. Pickle
✘ 3. Banana
✘ 4. Apple

Question ID : **264330101126**
Status : **Answered**
Chosen Option : **1**

Q.21 Select the Venn diagram that best illustrates the relationship between the following classes.
Dubai, Asia, Africa

Ans
✘ 1.

✘ 2.

✘ 3.

✔ 4.


Question ID : **264330130729**
Status : **Answered**
Chosen Option : **4**

Q.22 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.
BEAUTY : ZVXEJH :: FRAGILE : FNLKFXM :: BEYOND : ?

Ans
✘ 1. EOPZFC
✘ 2. DNOYEB
✘ 3. EPRCEB
✔ 4. EPRCJH

Question ID : **26433090017**
Status : **Answered**
Chosen Option : **4**

Q.23 In a certain code language, if 'CBVQ' is written as '652520' and 'FRJT' is written as '9211323', how will 'EHLP' be written in the same code language?

Ans
1. 80121421
2. 7910520
3. 8012514
4. 8111519

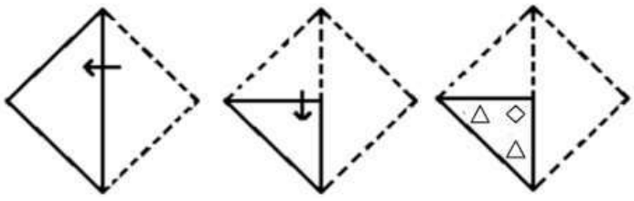
Question ID : **264330126654**
Status : **Answered**
Chosen Option : **4**

Q.24 In a certain code language, 'FRISK' is written as 'THLIQ' and 'MOADS' is written as 'QODQB'. How will 'WAGER' be written in that language?

Ans
1. CUJBC
2. CYJBD
3. CYJPC
4. CUJPG

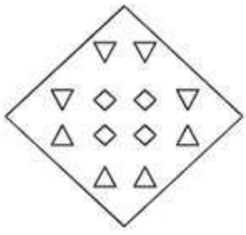
Question ID : **264330131614**
Status : **Answered**
Chosen Option : **3**

Q.25 A paper is folded and cut as shown below. How will it appear when unfolded?

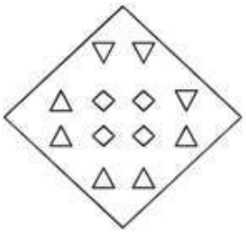


Ans

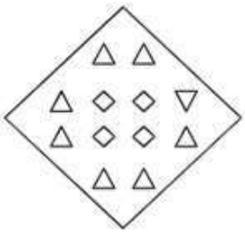
✔ 1.



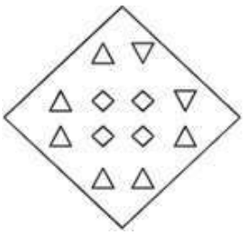
✘ 2.



✘ 3.



✘ 4.



Question ID : **26433080544**
Status : **Answered**
Chosen Option : **1**

Section : **General Awareness**

Q.1 At which Olympic Games did India win a gold medal for the first time?

Ans
1. 1936 Berlin
2. 1968 Mexico
3. 1928 Amsterdam
4. 1952 Helsinki

Question ID : **264330110344**
Status : **Answered**
Chosen Option : **1**

Q.2 Identify the black soil region of India from the following.

Ans
1. Coastal plains
2. Northern plains
3. Deccan trap
4. Himalayas

Question ID : **264330119232**
Status : **Answered**
Chosen Option : **3**

Q.3 Who is the first Indian woman to win an Olympic medal?

Ans
1. Mirabai Chanu
2. PV Sindhu
3. Saina Nehwal
4. Karnam Malleswari

Question ID : **26433055189**
Status : **Answered**
Chosen Option : **4**

Q.4 Which of the following statements are correct regarding the Union Public Service Commission?
A. The Parliament has the power to make regulations as to conditions of service of the Chairman, members and staff of the commission.
B. The Government of India Act, 1935, envisaged a Public Service Commission for the Federation and a Provincial Public Service Commission for each Province or group of Provinces.
C. The Federal Public Service Commission came to be known as the Union Public Service Commission by virtue of Clause (1) of Article 378 of the Constitution in 1950.

Ans
1. A and B only
2. A, B and C
3. B and C only
4. A and C only

Question ID : **264330114770**
Status : **Answered**
Chosen Option : **1**

**Q.5** **Which Article of the Indian Constitution talks about 'abolition of title'?**

**Ans**

✔ 1. Article 18

✘ 2. Article 20

✘ 3. Article 19

✘ 4. Article 17

Question ID : **264330144219**
Status : **Answered**
Chosen Option : **1**

**Q.6** **What is humidity?**

**Ans**

✘ 1. When the water vapour transfers into water from air

✔ 2. When water vapour is present in the air

✘ 3. When the other gases transfer to air

✘ 4. When air is present in the water

Question ID : **264330111564**
Status : **Answered**
Chosen Option : **2**

**Q.7** **The authorities of which country denied the permission to land the ship Komagata Maru, carrying Indians?**

**Ans**

✘ 1. New Zealand

✘ 2. America

✘ 3. Australia

✔ 4. Canada

Question ID : **264330132671**
Status : **Answered**
Chosen Option : **1**

**Q.8** **During which festival is Garba performed?**

**Ans**

✘ 1. Pongal

✔ 2. Navratri

✘ 3. Diwali

✘ 4. Bihu

Question ID : **264330109280**
Status : **Answered**
Chosen Option : **2**

Q.9 **In December 2021, the Supreme Court suspended OBC quotas for local body elections in which of the following states?**

Ans
✗ 1. West Bengal and Odisha
✓ 2. Maharashtra and Madhya Pradesh
✗ 3. Bihar and Uttar Pradesh
✗ 4. Andhra Pradesh and Karnataka

Question ID : **26433074184**
Status : **Answered**
Chosen Option : **4**

Q.10 **This festival was started by the Government of Nagaland in 2000 to encourage interaction among tribes and to promote the cultural heritage of the State. Identify the festival.**

Ans
✓ 1. Hornbill festival
✗ 2. Nazu festival
✗ 3. Gaan-Ngai festival
✗ 4. Nuakhai festival

Question ID : **264330111138**
Status : **Answered**
Chosen Option : **1**

Q.11 **How many industries were listed in Schedule A of Industrial Policy, 1956?**

Ans
✗ 1. 16
✓ 2. 17
✗ 3. 10
✗ 4. 12

Question ID : **264330109391**
Status : **Not Answered**
Chosen Option : **--**

Q.12 **Identify the option that arranges the following neighbouring countries of India according to their Human Development Index (HDI) ranks in 2021-22 in increasing order.**
**a) Sri Lanka**
**b) Maldives**
**c) Bhutan**
**d) Bangladesh**

Ans
✗ 1. b-a-d-c
✓ 2. a-b-c-d
✗ 3. b-a-c-d
✗ 4. a-b-d-c

Question ID : **264330109523**
Status : **Answered**
Chosen Option : **1**

Q.13 **Asansol, Howrah, Malda and Sealdah division come under which railway zone of India?**

Ans
1. West Central Railway
2. Northern Railway
3. Central Railway
4. Eastern Railway

Question ID : **264330111321**
Status : **Answered**
Chosen Option : **4**

Q.14 **What cells help in osmoregulation in platyhelminthes?**

Ans
1. Nerve cells
2. Flame cells
3. Ganglia
4. Hooks

Question ID : **264330134873**
Status : **Answered**
Chosen Option : **2**

Q.15 **Who became the first woman officer to join Army Aviation Corps as Combat Aviator after the successful completion of training in May 2022?**

Ans
1. Captain Abhilasha Barak
2. Captain Shiva Chauhan
3. Captain Gursimran Kaur
4. Captain Manju Sharma

Question ID : **264330132599**
Status : **Answered**
Chosen Option : **1**

Q.16 **Malik Ambar, who resisted Mughals in Deccan, was an able administrator of which state?**

Ans
1. Bidar
2. Bijapur
3. Golconda
4. Ahmednagar

Question ID : **264330110202**
Status : **Answered**
Chosen Option : **2**

Q.17 Who among the following is associated with the musical instrument Surbahar?

Ans
✔ 1. Annapurna Devi
✘ 2. Shiv Kumar Sharma
✘ 3. Sharan Rani
✘ 4. Bhajan Sopari

Question ID : **264330131306**
Status : **Not Answered**
Chosen Option : **--**

Q.18 President Ram Nath Kovind conferred which award on Matha B Manjamma for Jogati Nrithyaa in 2021?

Ans
✘ 1. Padma Bhushan
✔ 2. Padma Shri
✘ 3. Padma Vibhushan
✘ 4. Sangeet Natak Akademi

Question ID : **26433055423**
Status : **Not Answered**
Chosen Option : **--**

Q.19 Who among the following sportspersons was awarded the Chhattisgarh Veerni Award 2021?

Ans
✘ 1. Shikhar Dhawan
✘ 2. Bajrang Punia
✔ 3. Dutee Chand
✘ 4. P V Sindhu

Question ID : **26433082839**
Status : **Answered**
Chosen Option : **3**

Q.20 Ferns, horsetails and lycophytes belong to which of the following groups?

Ans
✘ 1. Bryophyta
✔ 2. Pteridophyta
✘ 3. Algae
✘ 4. Fungi

Question ID : **26433082206**
Status : **Answered**
Chosen Option : **1**

Q.21 **The Ashtadhyayi of Panini is a renowned work on _____.**

Ans
✗ 1. Mauryan Polity
✗ 2. Gupta Administration
✗ 3. Medicine
✓ 4. Sanskrit Grammar

Question ID : **264330114060**
Status : **Answered**
Chosen Option : **4**

Q.22 **Which of the following statements is NOT correct about surface tension?**

Ans
✗ 1. Surface tension is typically measured in dynes/cm.
✗ 2. The shape of water drop is spherical due to surface tension.
✓ 3. At room temperature, surface tension of water is less than ethyl alcohol.
✗ 4. The cohesive forces between liquid molecules are responsible for the phenomenon known as surface tension.

Question ID : **264330131766**
Status : **Answered**
Chosen Option : **3**

Q.23 $M_2$ is one of the measures of money supply. $M_2$ is the sum of $M_1$ + ____.

Ans
✓ 1. saving deposits with post office
✗ 2. National Saving Certificates
✗ 3. coins and currency notes
✗ 4. demand deposits

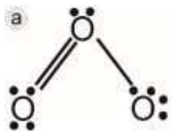
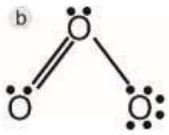
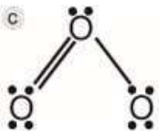
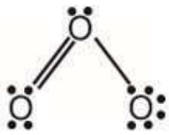
Question ID : **26433066576**
Status : **Answered**
Chosen Option : **3**

Q.24 **In which year was the Vernacular Press Act enacted in British India?**

Ans
✗ 1. 1876
✗ 2. 1874
✗ 3. 1872
✓ 4. 1878

Question ID : **264330106608**
Status : **Answered**
Chosen Option : **3**

Q.25 Which of the following is the correct Lewis structure of $O_3$?

a  b  c  d 

Ans
✗ 1. c
✗ 2. a
✗ 3. b
✓ 4. d

Question ID : **26433066639**
Status : **Answered**
Chosen Option : **3**

Section : **Quantitative Aptitude**

Q.1 The cube of the difference between two given natural numbers is 1728, while the product of these two given numbers is 108. Find the sum of the cubes of these two given numbers.

Ans
✓ 1. 6048
✗ 2. 5616
✗ 3. 6024
✗ 4. 5832

Question ID : **264330114558**
Status : **Answered**
Chosen Option : **1**

Q.2 30 men can complete a work in 12 days. After 6 days, 24 more men joined them. How many days will they now take to complete the remaining work?

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

Question ID : **264330143491**
Status : **Answered**
Chosen Option : **1**

Q.3 **A thief is spotted by a policeman from a distance of 400m. When the policeman starts chasing, the thief also starts running. If the speed of the thief is 32km/h and that of the policeman is 40 km/h, then how far wouldthe thief have run before he is overtaken?**

Ans
✗ 1. 1500m
✗ 2. 1000m
✗ 3. 1200m
✓ 4. 1600m

Question ID : **264330103426**
Status : **Answered**
Chosen Option : **4**

Q.4 **The cube of the difference between two given natural numbers is 1728, while the product of these two given numbers is 108. Find the positive difference between the cubes of these two given numbers.**

Ans
✗ 1. 4104
✓ 2. 5616
✗ 3. 2160
✗ 4. 5626

Question ID : **264330101346**
Status : **Answered**
Chosen Option : **2**

Q.5 Study the following table and answer the question below.

| School name | Total number of students enrolled | Percentage of enrolled students who opted for Biology | Ratio of male to female students who opted for Biology |
|---|---|---|---|
| A | 900 | 30% | 7:8 |
| B | 400 | 38% | 9:10 |
| C | 1000 | 24% | 5:19 |
| D | 800 | 18% | 5:7 |

What is the ratio of the total number of male students to that of female students who opted for Biology in schools A and D together?

Ans
✗ 1. 38:31
✗ 2. 21:38
✗ 3. 31:28
✓ 4. 31:38

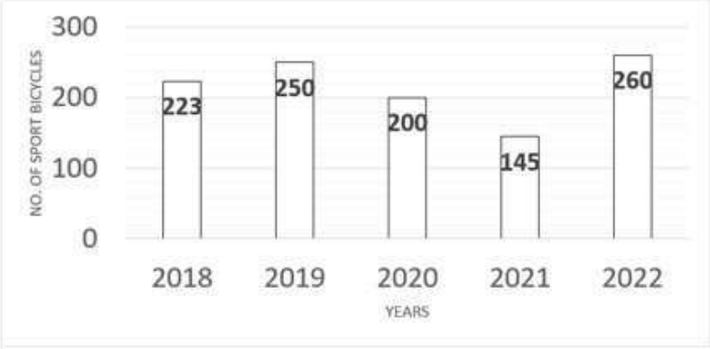
Question ID : **264330103828**
Status : **Answered**
Chosen Option : **4**

Q.6 **A conical tent of height 10m and base diameter 48m was erected by a company in a park. Find the curved surface area of the tent (in $m^2$).**

Ans
✗ 1. $576\pi$
✗ 2. $1248\pi$
✗ 3. $1152\pi$
✓ 4. $624\pi$

Question ID : **264330103436**
Status : **Answered**
Chosen Option : **4**

Q.7 **The number of sport bicycles sold by a shopkeeper in five years is shown in the following bar graph.**




**What is the percentage of decrease in the sale of sport bicycles in the year 2021 over that in the previous year?**

Ans
✗ 1. 27.0%
✗ 2. 26.5%
✗ 3. 26.0%
✓ 4. 27.5%

Question ID : **264330131482**
Status : **Answered**
Chosen Option : **4**

Q.8

Using trigonometric formulas, find the value of $\left(\frac{\sin(x-y)}{\sin(x+y)}\right)\left(\frac{\tan x+\tan y}{\tan x-\tan y}\right)$

Ans
✗ 1. -2
✗ 2. 2
✗ 3. 0
✓ 4. 1

Question ID : **26433075780**
Status : **Answered**
Chosen Option : **4**

Q.9

Simplify the given expression.

$$\frac{(326+222)^2-(326-222)^2}{(326\times 222)}$$

Ans
✗ 1. 1
✓ 2. 4
✗ 3. 3
✗ 4. 2

Question ID : **264330126540**
Status : **Answered**
Chosen Option : **2**

Q.10 The third proportional to ($x^2$-$y^2$ ) and (x-y) is:

Ans
✗ 1. $(x-y)$

✓ 2. $\frac{x-y}{x+y}$

✗ 3. $\frac{x+y}{x-y}$

✗ 4. $(x+y)$

Question ID : **264330104515**
Status : **Answered**
Chosen Option : **2**

Q.11 A shopkeeper offers the following two discount schemes.
A) Two successive discounts of 10% and 15%
B) Buy 5 get 2 free.
Which scheme has the maximum discount percentage?

Ans
✗ 1. B does not give any discount

✓ 2. B

✗ 3. A and B both have the same discount percentage

✗ 4. A

Question ID : **264330104249**
Status : **Answered**
Chosen Option : **2**

Q.12 A can finish a work in 20 days and B can complete the same work in 15 days. B worked for 9 days and left the job. In how many days can A alone finish the remaining work?

Ans
✗ 1. 10 days

✓ 2. 8 days

✗ 3. 9 days

✗ 4. 7 days

Question ID : **264330126591**
Status : **Answered**
Chosen Option : **2**

Q.13 Two trains P and Q of lengths 320 m and 540 m, respectively, are running in the same direction on parallel tracks at 108 km/h and 144 km/h, respectively. How much time will the trains take to cross each other completely?

Ans
✓ 1. 86 s

✗ 2. 54 s

✗ 3. 32 s

✗ 4. 68 s

Question ID : **26433097579**
Status : **Answered**
Chosen Option : **1**

Q.14 **10 men can do a work in 25 days. After 12 days of work, 3 more men were engaged to finish the work. The number of days required to complete the remaining work is:**

Ans
✔ 1. 10
✘ 2. 8
✘ 3. 6
✘ 4. 12

Question ID : **264330129450**
Status : **Answered**
Chosen Option : **1**

Q.15 **If the simple interest for 5 years is equal to 25% of the principal, then the interest will be equal to the principal after _____ years.**

Ans
✔ 1. 20
✘ 2. 30
✘ 3. 25
✘ 4. 22

Question ID : **264330108887**
Status : **Answered**
Chosen Option : **1**

Q.16 Which of the following numbers will completely divide $4^{12} + 4^{13} + 4^{14} + 4^{15}$?

Ans
✘ 1. 3
✘ 2. 7
✘ 3. 11
✔ 4. 17

Question ID : **264330145552**
Status : **Answered**
Chosen Option : **4**

Q.17 If $\cot A = \frac{12}{5}$, then the value of $(\sin A + \cos A) \times \operatorname{cosec} A$ is _____.

Ans
✘ 1. $\frac{13}{5}$
✔ 2. $\frac{17}{5}$
✘ 3. $\frac{14}{5}$
✘ 4. $1$

Question ID : **264330143567**
Status : **Answered**
Chosen Option : **2**

Q.18 Raj's income is ₹45,000 and his expenditure is ₹33,000. If his income is increased by 20% and expenditure by 12%, then what will be the percentage increase in saving?

Ans
✗ 1. 48%
✗ 2. 56%
✗ 3. 36%
✓ 4. 42%

Question ID : **264330126566**
Status : **Answered**
Chosen Option : **4**

Q.19 Which of the following numbers is divisible by 24?

Ans
✗ 1. 52668
✓ 2. 49512
✗ 3. 64760
✗ 4. 26968

Question ID : **264330131114**
Status : **Answered**
Chosen Option : **2**

Q.20 The average weight of a team of 20 people was calculated to be 59.8 kg and it was later discovered that one weight was misread as 68 kg instead of 77 kg. The correct average weight is:

Ans
✗ 1. 70.25 kg
✗ 2. 61.25 kg
✓ 3. 60.25 kg
✗ 4. 60.50 kg

Question ID : **264330130911**
Status : **Answered**
Chosen Option : **3**

Q.21 Let A, B, C be the mid-points of sides PQ, QR PR, respectively, of $\Delta PQR$. If the area of $\Delta PQR$ is $32cm^2$, then find the area of $\Delta ABC$.

Ans
✗ 1. 24 $cm^2$
✗ 2. 16 $cm^2$
✗ 3. 32 $cm^2$
✓ 4. 8 $cm^2$

Question ID : **264330143528**
Status : **Answered**
Chosen Option : **4**

Q.22 **Two concentric circles of radii 15 cm and 13 cm are given. Find the length of the chord of the larger circle which touches the smaller circle.**

Ans

✗ 1. $22\sqrt{7}$

✗ 2. $8\sqrt{14}$

✓ 3. $4\sqrt{14}$

✗ 4. $12\sqrt{7}$

Question ID : **26433076407**
Status : **Answered**
Chosen Option : **3**

Q.23 **On purchase of articles worth ₹10,000, a shopkeeper offers a flat discount of ₹500 to his customers. Further, by shopping using a credit card, he gives an additional discount of 7%. If a customer purchases article worth Rs.10000 using a credit card, then how much is he/she required to pay?**

Ans

✓ 1. ₹8,835

✗ 2. ₹9,000

✗ 3. ₹8,815

✗ 4. ₹9,300

Question ID : **26433091540**
Status : **Answered**
Chosen Option : **1**

Q.24 If $\tan\frac{A}{2} = x$, then find x.

Ans

✗ 1. $\frac{\sqrt{1+\cos A}}{\sqrt{1-\cos A}}$

✗ 2. $\frac{\sqrt{1-\sin A}}{\sqrt{1+\cos A}}$

✓ 3. $\frac{\sqrt{1-\cos A}}{\sqrt{1+\cos A}}$

✗ 4. $\frac{\sqrt{\cos A-1}}{\sqrt{1+\cos A}}$

Question ID : **264330122105**
Status : **Answered**
Chosen Option : **3**

**Q.25** Two circles of radii 10 cm and 5 cm touch each other externally at a point A. PQ is the direct common tangent of those two circles of centres $O_1$ and $O_2$, respectively. The length of PQ is equal to:

**Ans**

✔ 1. $10\sqrt{2}$ cm

✘ 2. $8\sqrt{2}$ cm

✘ 3. $9\sqrt{2}$ cm

✘ 4. $6\sqrt{2}$ cm

Question ID : **264330143546**
Status : **Answered**
Chosen Option : **1**

Section : **English Comprehension**

**Q.1** **Select the most appropriate option that can substitute the underlined word in the given sentence.**

**Last week's rain ravaged the whole city.**

**Ans**

✘ 1. reaffirmed

✘ 2. rescinded

✔ 3. ruined

✘ 4. retracted

Question ID : **26433092067**
Status : **Answered**
Chosen Option : **3**

**Q.2** **Select the most appropriate option that can substitute the underlined segment in the given sentence.**

**National development is defined as an improvement in people's daily arrangements, the provision of fundamental necessities to citizens such as food, education, social services, medical help, and so on, as well as an increase in per capita income.**

**Ans**

✘ 1. diving techniques

✘ 2. dining categories

✘ 3. existing calamities

✔ 4. living conditions

Question ID : **26433098912**
Status : **Answered**
Chosen Option : **4**

Q.3 **Select the word with the correct spelling from the options given below to fill in the blank.**
**They saw the beautiful _____ of the Gods in the Temples.**

Ans
✔ 1. Idols
✘ 2. Idoles
✘ 3. Ideals
✘ 4. Idles

Question ID : **264330100242**
Status : **Answered**
Chosen Option : **1**

Q.4 **Select the most appropriate option that can substitute the underlined words in the given sentence.**
**The traffic sergeant proved through the test that Raj was under the influence of drugs and alcohol.**

Ans
✔ 1. inebriated
✘ 2. simonised
✘ 3. ponied
✘ 4. pocked

Question ID : **26433086503**
Status : **Answered**
Chosen Option : **1**

Q.5 **Select the option that expresses the given sentence in passive voice.**
**He does not buy shirts.**

Ans
✔ 1. Shirts are not bought by him.
✘ 2. Shirts are not brought by him.
✘ 3. Shirts were not been bought by him.
✘ 4. Shirts were not bought by him.

Question ID : **264330121856**
Status : **Answered**
Chosen Option : **1**

Q.6 **Identify the sentence that correctly uses the indefinite article.**

Ans
✘ 1. She purchased a apple in the market with me.
✔ 2. She purchased an apple in the market with me.
✘ 3. She purchased apple in the market with me.
✘ 4. She purchase a apple in the market with me.

Question ID : **26433072038**
Status : **Answered**
Chosen Option : **2**

Q.7 **Select the option that expresses the given sentence in passive voice.**
**She is building a new house.**

Ans
✔ 1. A new house is being built by her.
✘ 2. She had built a new house.
✘ 3. She has built a new house.
✘ 4. A new house has been built by her.

Question ID : **264330133297**
Status : **Answered**
Chosen Option : **1**

Q.8 **Select the most appropriate synonym of the underlined word.**

**The company was engaged in <u>spurious</u> trade practices.**

Ans
✘ 1. Effective
✔ 2. Fraudulent
✘ 3. Spacious
✘ 4. Trendy

Question ID : **26433091816**
Status : **Answered**
Chosen Option : **2**

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

Ans
✘ 1. Glorifying
✘ 2. Ravishing
✘ 3. Stunning
✔ 4. Interesting

Question ID : **26433091738**
Status : **Answered**
Chosen Option : **4**

Q.10 **The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.**

**Sajni had / interfere in / this matter.**

Ans
✔ 1. interfere in
✘ 2. No error
✘ 3. this matter
✘ 4. Sajni had

Question ID : **26433073529**
Status : **Answered**
Chosen Option : **1**

Q.11 **Sentences of a paragraph are given below. While the first and the last sentences (S1 and S6) are in the correct order, the sentences in between are jumbled up and named P, Q, R, S. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.**

**(S1) Today, the world has become a much smaller place, thanks to the adventures and miracles of science.**
**(P) We are slowly realising that the world is a single cooperative group.**
**(Q) Other religions have become forces with which we have to reckon, and we are seeking for ways and means by which we can live together in peace and harmony.**
**(R) Mingling of population is bringing about interchange of thought.**
**(S) Foreign nations have become our next-door neighbours.**
**(S6) We cannot have religious unity and peace so long as we assert that we are in possession of the light and all others are groping in the darkness.**

Ans
✔ 1. S, R, P, Q
✘ 2. P, Q, R, S
✘ 3. S, R, Q, P
✘ 4. Q, R, S, P

Question ID : **26433073268**
Status : **Answered**
Chosen Option : **1**

Q.12 **Select the most appropriate meaning of the given idiom.**

**Bad iron**

Ans
✘ 1. No steam
✘ 2. Not hot
✔ 3. Bad luck
✘ 4. Bad behaviour

Question ID : **26433089730**
Status : **Answered**
Chosen Option : **4**

Q.13 **Select the sentences that contains no spelling errors.**

Ans
✘ 1. The mall road of our city is always teyming with street vendors.
✘ 2. The mall road of our city is always tiiming with street vendors.
✘ 3. The mall road of our city is always tyming with street vendors.
✔ 4. The mall road of our city is always teeming with street vendors.

Question ID : **26433070697**
Status : **Answered**
Chosen Option : **4**

Q.14 **Select the most appropriate synonym of the underlined word in the following sentence.**
**I always enjoy the company of <u>respectful</u> teachers.**

Ans
✗ 1. admiring
✗ 2. derogatory
✓ 3. dutiful
✗ 4. insolent

Question ID : **26433066419**
Status : **Answered**
Chosen Option : **1**

Q.15 **Select the option that can be used as a one-word substitute for the given group of words.**

**A sentimental memory of the past**

Ans
✗ 1. Hysteria
✓ 2. Nostalgia
✗ 3. Mania
✗ 4. Euphoria

Question ID : **26433073967**
Status : **Answered**
Chosen Option : **2**

Q.16 **Select the most appropriate idiom or phrase to fill in the blank in the given sentence.**

**Sweety has been _____ since her painting won first prize.**

Ans
✗ 1. walking on eggshells
✗ 2. waiting in the wings
✗ 3. walking into the lion's den
✓ 4. walking on air

Question ID : **26433092311**
Status : **Answered**
Chosen Option : **4**

Q.17 **Select the most appropriate synonym of the word given in brackets to fill in the blank.**
**He became _____(verbose) after a few drinks.**

Ans
✗ 1. aggressive
✗ 2. decisive
✗ 3. exhaustive
✓ 4. talkative

Question ID : **264330141153**
Status : **Answered**
Chosen Option : **4**

Q.18 **Select the option that can be used as a one-word substitute for the given group of words.**

**A large number of fish swimming together**

Ans
- ✔ 1. Shoal
- ✘ 2. Stream
- ✘ 3. Sheaf
- ✘ 4. String

Question ID : **26433074038**
Status : **Answered**
Chosen Option : **1**

Q.19 **Select the most appropriate ANTONYM of the given word.**
**Eloquent**

Ans
- ✘ 1. Modest
- ✘ 2. Crucial
- ✔ 3. Impotent
- ✘ 4. Humble

Question ID : **264330132803**
Status : **Answered**
Chosen Option : **2**

Q.20 **Select the most appropriate option to fill in the blanks.**

**As cattle are to herd so are birds to _____.**

Ans
- ✔ 1. flock
- ✘ 2. litter
- ✘ 3. pack
- ✘ 4. streak

Question ID : **26433073260**
Status : **Answered**
Chosen Option : **1**

**Comprehension:**

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

All state universities and colleges in Uttar Pradesh, one of the (1) _____ in India, will now (2) _____ a "save water" ritual named 'Jal Bharo' in place of 'lamp lighting' to inaugurate their annual convocations. The governor of the state, who is also chancellor of state universities, instructed that every university and college in the state should install rainwater harvesting plants on its campus. 'Jal Bharo' signifies (3) _____ the vision of 'Jal Shakti'. This ceremony symbolises the (4) _____ importance of water conservation, whereas the lamp lighting ceremony symbolised removing darkness through education and spreading the light of learning. It is really a (5) _____ initiative. Every educational institute in India should ensure to save and recharge groundwater by installing rainwater harvesting plants. These kinds of initiatives provide awareness of using and saving water, the elixir of life.

**SubQuestion No : 21**

**Q.21 Select the most appropriate option to fill in blank no. 1.**

**Ans**

✗ 1. more big states

✗ 2. big state

✓ 3. biggest states

✗ 4. bigger state

Question ID : **264330139162**
Status : **Answered**
Chosen Option : **3**

**Comprehension:**

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

All state universities and colleges in Uttar Pradesh, one of the (1) _____ in India, will now (2) _____ a "save water" ritual named 'Jal Bharo' in place of 'lamp lighting' to inaugurate their annual convocations. The governor of the state, who is also chancellor of state universities, instructed that every university and college in the state should install rainwater harvesting plants on its campus. 'Jal Bharo' signifies (3) _____ the vision of 'Jal Shakti'. This ceremony symbolises the (4) _____ importance of water conservation, whereas the lamp lighting ceremony symbolised removing darkness through education and spreading the light of learning. It is really a (5) _____ initiative. Every educational institute in India should ensure to save and recharge groundwater by installing rainwater harvesting plants. These kinds of initiatives provide awareness of using and saving water, the elixir of life.

**SubQuestion No : 22**

**Q.22 Select the most appropriate option to fill in blank no. 2.**

**Ans**

✓ 1. organise

✗ 2. organising

✗ 3. have managed

✗ 4. managing

Question ID : **264330139163**
Status : **Answered**
Chosen Option : **1**

**Comprehension:**

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

All state universities and colleges in Uttar Pradesh, one of the (1) _____ in India, will now (2) _____ a "save water" ritual named 'Jal Bharo' in place of 'lamp lighting' to inaugurate their annual convocations. The governor of the state, who is also chancellor of state universities, instructed that every university and college in the state should install rainwater harvesting plants on its campus. 'Jal Bharo' signifies (3) _____ the vision of 'Jal Shakti'. This ceremony symbolises the (4) _____ importance of water conservation, whereas the lamp lighting ceremony symbolised removing darkness through education and spreading the light of learning. It is really a (5) _____ initiative. Every educational institute in India should ensure to save and recharge groundwater by installing rainwater harvesting plants. These kinds of initiatives provide awareness of using and saving water, the elixir of life.

**SubQuestion No : 23**

**Q.23 Select the most appropriate option to fill in blank no. 3.**

**Ans**

✗ 1. holding

✗ 2. proceeding

✗ 3. moving

✓ 4. strengthening

Question ID : **264330139164**
Status : **Answered**
Chosen Option : **4**

**Comprehension:**

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

All state universities and colleges in Uttar Pradesh, one of the (1) _____ in India, will now (2) _____ a "save water" ritual named 'Jal Bharo' in place of 'lamp lighting' to inaugurate their annual convocations. The governor of the state, who is also chancellor of state universities, instructed that every university and college in the state should install rainwater harvesting plants on its campus. 'Jal Bharo' signifies (3) _____ the vision of 'Jal Shakti'. This ceremony symbolises the (4) _____ importance of water conservation, whereas the lamp lighting ceremony symbolised removing darkness through education and spreading the light of learning. It is really a (5) _____ initiative. Every educational institute in India should ensure to save and recharge groundwater by installing rainwater harvesting plants. These kinds of initiatives provide awareness of using and saving water, the elixir of life.

**SubQuestion No : 24**

**Q.24 Select the most appropriate option to fill in blank no. 4.**

**Ans**

✗ 1. sheer

✗ 2. complete

✓ 3. immense

✗ 4. total

Question ID : **264330139165**
Status : **Answered**
Chosen Option : **3**

**Comprehension:**

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

All state universities and colleges in Uttar Pradesh, one of the (1) _____ in India, will now (2) _____ a "save water" ritual named 'Jal Bharo' in place of 'lamp lighting' to inaugurate their annual convocations. The governor of the state, who is also chancellor of state universities, instructed that every university and college in the state should install rainwater harvesting plants on its campus. 'Jal Bharo' signifies (3) _____ the vision of 'Jal Shakti'. This ceremony symbolises the (4) _____ importance of water conservation, whereas the lamp lighting ceremony symbolised removing darkness through education and spreading the light of learning. It is really a (5) _____ initiative. Every educational institute in India should ensure to save and recharge groundwater by installing rainwater harvesting plants. These kinds of initiatives provide awareness of using and saving water, the elixir of life.

**SubQuestion No : 25**

**Q.25 Select the most appropriate option to fill in blank no. 5.**

**Ans**

✔ 1. laudable

✘ 2. louder

✘ 3. labelled

✘ 4. lower

Question ID : **264330139166**
Status : **Answered**
Chosen Option : **1**