

Combined Graduate level Examination 2023 Tier I

Roll Number	
Candidate Name	
Venue Name	i-Tech Zone
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?

$$10 - 4 + 13 \div 15 \times 3 = 71$$

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

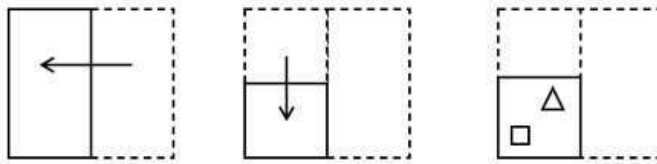
☒ 4. IBTURLP

Question ID : 264330131038

Status : Answered

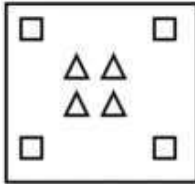
Chosen Option : 4

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

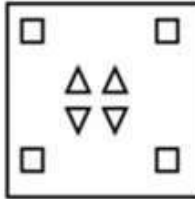


Ans

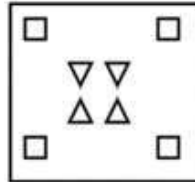
✗ 1.



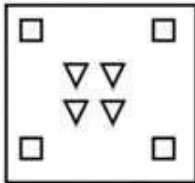
✗ 2.



✓ 3.



✗ 4.

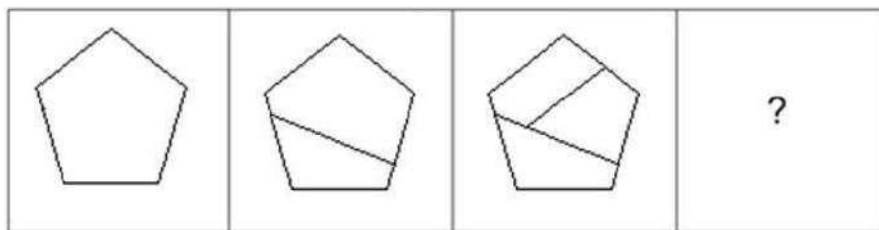


Question ID : 264330101179

Status : Answered

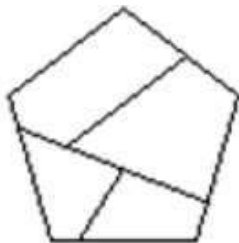
Chosen Option : 3

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

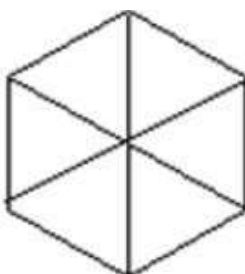


Ans

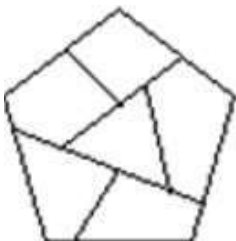
✓ 1.



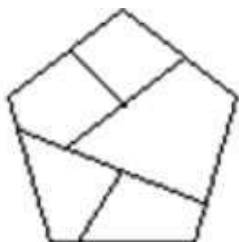
✗ 2.



✗ 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)

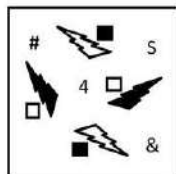
 4. (23, 46, 62)

Question ID : 26433057071

Status : Answered

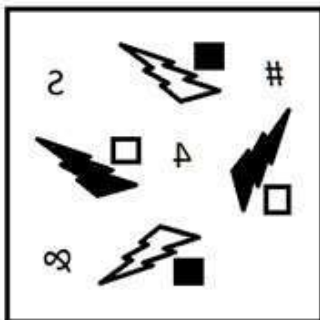
Chosen Option : 3

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

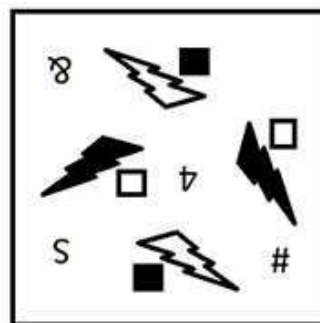


Ans

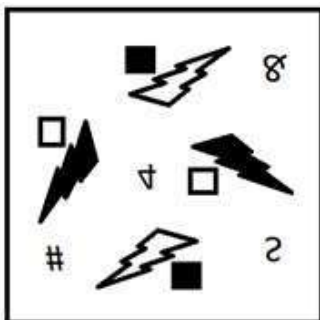
✗ 1.



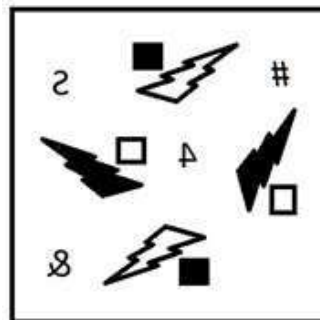
✗ 2.



✗ 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

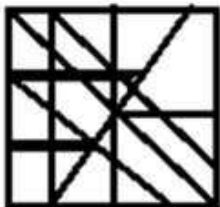
Chosen Option : 4

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

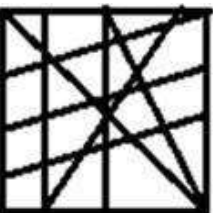


Ans

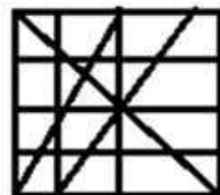
✗ 1.



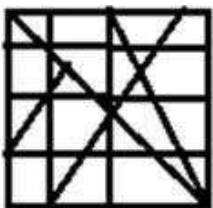
✗ 2.



✓ 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.

$$28 \text{ } \square \text{ } 4 \text{ } \square \text{ } 3 \text{ } \square \text{ } 9 \text{ } \square \text{ } 42 \text{ } \square \text{ } 12$$

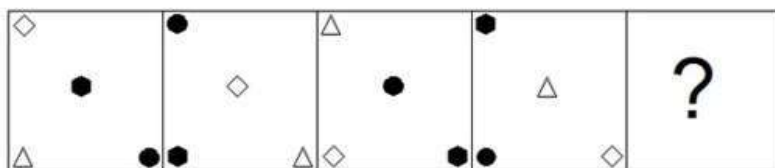
- Ans
- ☒ 1. +, ×, -, =, ×
 - ☒ 2. ÷, ×, =, +, +
 - ☒ 3. ÷, ×, +, =, -
 - ☒ 4. +, =, ÷, ×, +

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

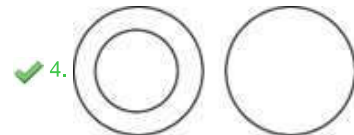
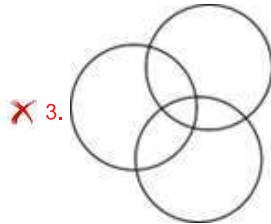
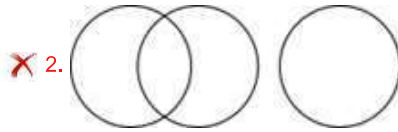
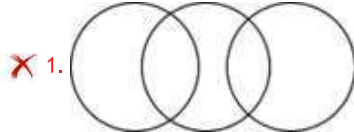
Question ID : 264330101126

Status : Answered

Chosen Option : 1

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

Ans



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 'EHL P' be written in the same code language?

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

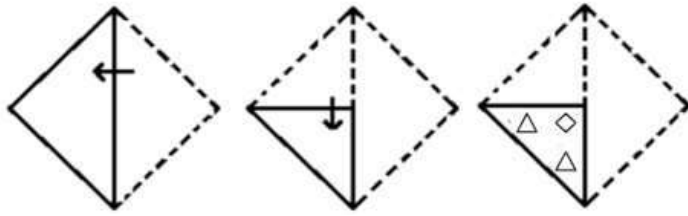
Question ID : 264330126654
Status : Answered
Chosen Option : 4

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

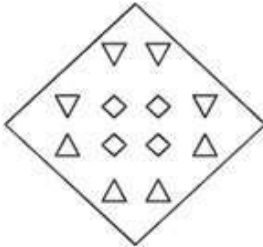
Question ID : 264330131614
Status : Answered
Chosen Option : 3

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

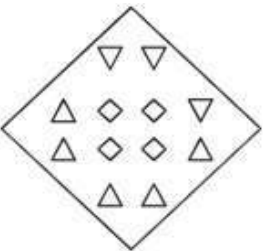


Ans

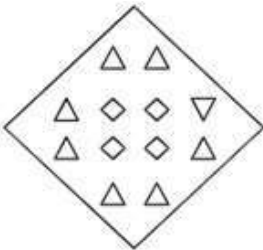
✓ 1.



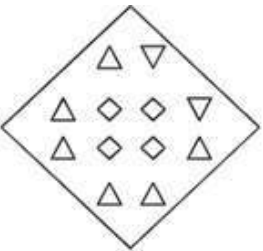
✗ 2.



✗ 3.



✗ 4.



Question ID : 26433080544

Status : Answered

Chosen Option : 1

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 Veer 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

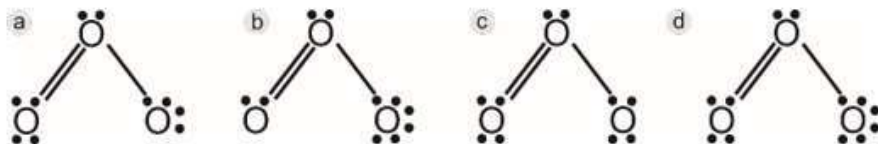
Question ID : 26433066576
Status : Answered
Chosen Option : 3

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 ?



- 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 would the 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).

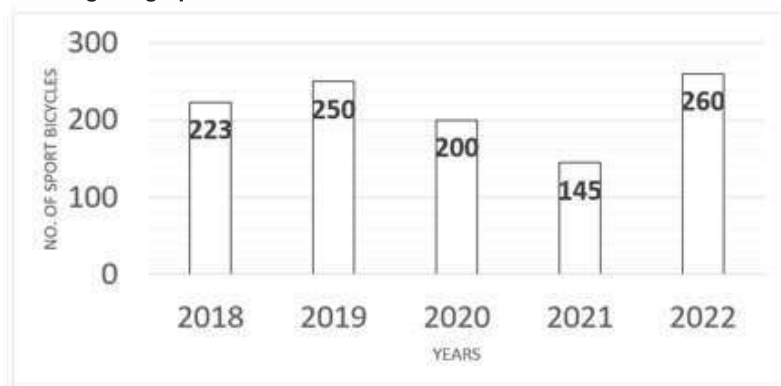
- Ans
- ☒ 1. 576π
 - ☒ 2. 1248π
 - ☒ 3. 1152π
 - ☒ 4. 624π

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 $\triangle PQR$. If the area of $\triangle PQR$ is 32cm^2 , then find the area of $\triangle ABC$.

- 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

- 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 spurious 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 tyiming 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 respectful 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