Combined Graduate level Examination 2023 Tier I

Roll Number	
Candidate Name	
Exam Date	26/07/2023
Exam Time	11:45 AM - 12:45 PM
Subject	Combined Graduate Level Examination Tier I 2023

Section : **General Intelligence and Reasoning**

Q.1 **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.**
CNY: GRC :: FRL: JVP :: ITK:?

Ans
✗ 1. MYO
✗ 2. EOG
✓ 3. MXO
✗ 4. EPG

Question ID : **264330104104**
Status : **Answered**
Chosen Option : **3**

Q.2 **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.**
QIN: XPU ::DSY: KZF :: ALM:?

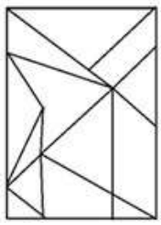
Ans
✗ 1. HTU
✗ 2. IST
✗ 3. ITU
✓ 4. HST

Question ID : **264330104098**
Status : **Answered**
Chosen Option : **4**

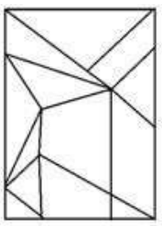
Q.3 **Select the option figure in which the given figure is embedded (rotation is NOT allowed).**

Ans

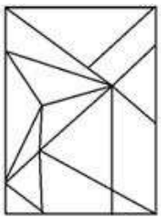
✗ 1.



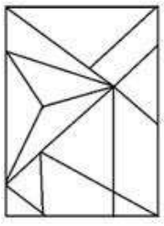
✗ 2.



✓ 3.



✗ 4.



Question ID : **26433067431**
Status : **Answered**
Chosen Option : **3**

Q.4 **Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.**
C _ _ UP _ EX _ PC _ XU _ _ E _ UP

Ans

✗ 1. EXCUPEXC

✓ 2. EXCUEPCX

✗ 3. EXUECPCX

✗ 4. XECUEPCX

Question ID : **26433089996**
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. 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, 18, 324)
(14, 11, 308)

Ans
✗ 1. (14, 15, 320)
✗ 2. (11, 12, 268)
✓ 3. (7, 12, 168)
✗ 4. (8, 13, 206)

Question ID : **264330131099**
Status : **Answered**
Chosen Option : **3**

Q.6 **Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.**
2 : 9 :: 6 : 121 :: 5 : ?

Ans
✓ 1. 81
✗ 2. 84
✗ 3. 64
✗ 4. 72

Question ID : **26433082446**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.7 **Select the set in which the numbers are NOT 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)
(8, 13, 21)
(13, 18, 31)

Ans
✗ 1. (14, 19, 33)
✗ 2. (8, 3, 11)
✓ 3. (11, 16, 29)
✗ 4. (17, 12, 29)

Question ID : **26433079017**
Status : **Answered**
Chosen Option : **3**

Q.8 **In a certain code language, "MELODY" is written as "LEMYDO" and "PURPLE" is written as "RUPELP". How will "CLAUSE" be written in that language?**

Ans
✗ 1. EUSLAC
✗ 2. ASUELC
✓ 3. ALCESU
✗ 4. ESUALC

Question ID : **264330130313**
Status : **Answered**
Chosen Option : **3**

Q.9 **Select the option that represents the correct order of the given words as they would appear in an English dictionary.**
1. Accompany
2. Accident
3. Accuracy
4. Acclaimed
5. Accepted
6. Accessary

Ans
✗ 1. 5, 6, 4, 2, 3, 1
✗ 2. 6, 5, 4, 2, 3, 1
✓ 3. 5, 6, 2, 4, 1, 3
✗ 4. 6, 5, 2, 4, 1, 3

Question ID : **264330132165**
Status : **Answered**
Chosen Option : **3**

Q.10 **एक महिला की तस्वीर की ओर देखते हुए सैमुअल ने कहा, "वह मेरे पिता के भाई की पुत्री की माता है।" तस्वीर में दिख रही महिला से सैमुअल किस प्रकार संबंधित है?**

Ans
✗ 1. पुत्र
✗ 2. भाई
✗ 3. देवर
✓ 4. पति के भाई का पुत्र

Question ID : **26433092747**
Status : **Answered**
Chosen Option : **4**

Q.11 **Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different.**

Ans
✗ 1. EIJN
✗ 2. DHIM
✓ 3. BDFH
✗ 4. CGHL

Question ID : **264330143775**
Status : **Marked For Review**
Chosen Option : **3**

Q.12 **Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.**
45 * 86 * 23 * 36 * 18 * 2021

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

Question ID : **26433068668**
Status : **Answered**
Chosen Option : **4**

Q.13 **Which of the following numbers will replace the question mark (?) in the given series?**
2, 10, 40, 120, 240, ?

Ans
✗ 1. 480
✗ 2. 300
✗ 3. 360
✓ 4. 240

Question ID : **26433085708**
Status : **Answered**
Chosen Option : **4**

Q.14 **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.**

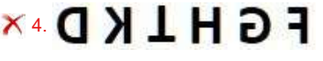
Statements:
All stars are moons.
Some moons are suns.
All suns are satellites.

Conclusions:
I. Some satellites are moons.
II. Some satellites are stars.
III. Some moons are stars.

Ans
✗ 1. Both conclusions I and II follow.
✗ 2. All conclusions follow.
✓ 3. Both conclusions I and III follow.
✗ 4. Both conclusions II and III follow.

Question ID : **26433093154**
Status : **Answered**
Chosen Option : **3**

Q.15 Select the correct mirror image of the given figure when the mirror is placed at PQ as shown below.

Ans
✓ 1.
✗ 2.
✗ 3.
✗ 4. 

Question ID : **26433080768**
Status : **Answered**
Chosen Option : **1**

Q.16 **In a certain code language, 'EACH' is written as '97', 'EASY' is written as '64'. How will 'ECHO' be written in that language?**

Ans
✗ 1. 85
✗ 2. 82
✓ 3. 83
✗ 4. 86

Question ID : **26433091592**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.17 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

Ans
✗ 1.
✗ 2.
✗ 3.
✓ 4.

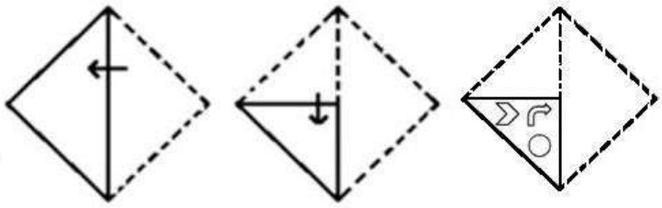
Question ID : **26433080796**
Status : **Answered**
Chosen Option : **4**

Q.18 **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)
(47, 11, 61)
(13, 68, 84)

Ans
✓ 1. (52, 88, 143)
✗ 2. (55, 11, 70)
✗ 3. (16, 62, 80)
✗ 4. (33, 43, 83)

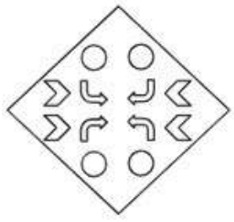
Question ID : **264330130349**
Status : **Answered**
Chosen Option : **1**

Q.19 A paper is folded and cut as shown below. How will it appear when unfolded?

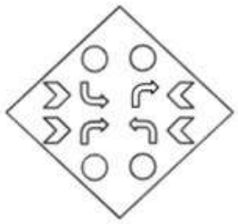


Ans

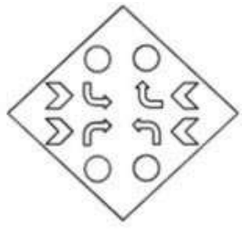
✔ 1.



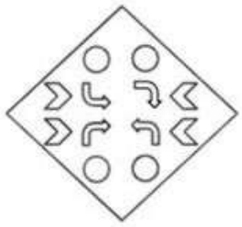
✘ 2.



✘ 3.



✘ 4.



Question ID : **26433091703**
Status : **Answered**
Chosen Option : **1**

Q.20 **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)
(2, 9, 85)
(3, 9, 90)

Ans

✘ 1. (7, 23, 130)

✔ 2. (7, 9, 130)

✘ 3. (13, 9, 130)

✘ 4. (12, 9, 130)

Question ID : **264330123243**
Status : **Answered**
Chosen Option : **2**

Q.21 **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.**
SCOOTER : SGWSTIZ :: AEROPLANE : FPDPUUYMJ :: HELICOPTER : ?

Ans
1. RETPOCILEH
2. SGWTTIPTNR
3. SFUQPDJMFI
4. SGWTTIPLEH

Question ID : **26433090016**
Status : **Answered**
Chosen Option : **2**

Q.22 **Select the correct combination of mathematical signs that can sequentially replace the * signs and balance the given equation.**
12* 70 * 5 * 5 * 5 * 11 * 2

Ans
1. +, –, ×, =, ×, +
2. ×, +, +, –, ×, =
3. ×, =, ×, ×, +, –
4. ×, +, –, ×, =, ×

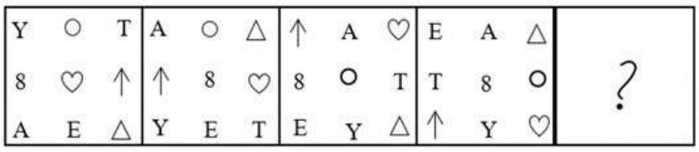
Question ID : **264330122373**
Status : **Answered**
Chosen Option : **1**

Q.23 **Arrange the following words in the correct order as per the English Dictionary.**
1. Pandemonium
2. Pandemic
3. Pandering
4. Pandanus
5. Pandarus

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

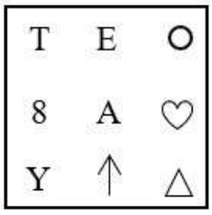
Question ID : **26433085612**
Status : **Answered**
Chosen Option : **4**

Q.24 Select the figure that will replace the question mark (?) in the following figure series.

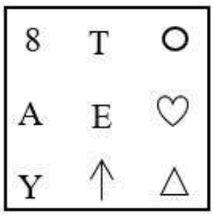


Ans

1.

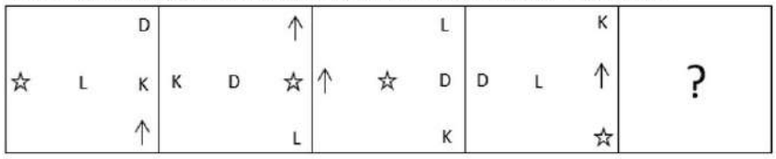
2. 

3.

4. 

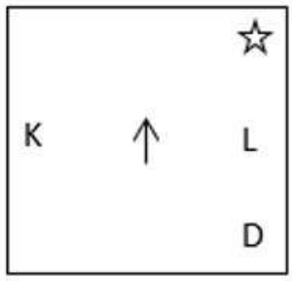
Question ID : **264330143848**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.25 Select the figure from the options that can replace the question mark (?) and complete the given pattern.

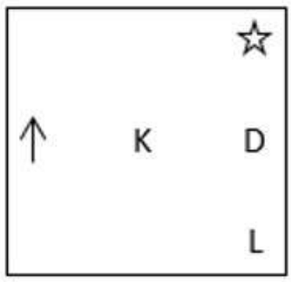


Ans

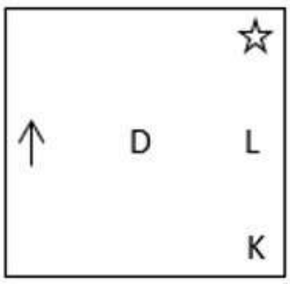
✔ 1.



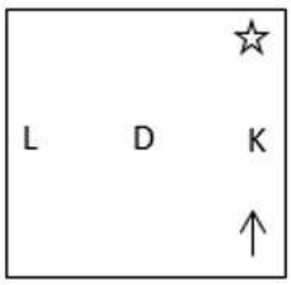
✘ 2.



✘ 3.



✘ 4.



Question ID : **26433085794**

Status : **Not Attempted and Marked For Review**

Chosen Option : **--**

Section : **General Awareness**

Q.1 **Who founded the Tattvabodhini Sabha that was set up to explore spiritual truth?**

Ans
- ✗ 1. Keshab Chandra Sen
- ✗ 2. Raja Ram Mohan Roy
- ✓ 3. Debendranath Tagore
- ✗ 4. Dayanand Saraswati

Question ID : **264330112193**
Status : **Not Answered**
Chosen Option : **--**

Q.2 **In which method of cooking is food heated slowly over a source of heat and cooked by high heat and air convection depending on the position of the food in relation to the fire?**

Ans
- ✓ 1. Spit-roasting
- ✗ 2. Braising
- ✗ 3. Poaching
- ✗ 4. Stewing

Question ID : **264330110095**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.3 **In which of the following animal phyla, is the body divided into head, thorax and abdomen?**

Ans
- ✗ 1. Annelida
- ✗ 2. Mollusca
- ✓ 3. Arthropoda
- ✗ 4. Chordata

Question ID : **26433066480**
Status : **Not Answered**
Chosen Option : **--**

Q.4 **Which state had the first female Governor in independent India?**

Ans
- ✗ 1. West Bengal
- ✗ 2. Rajasthan
- ✓ 3. Uttar Pradesh
- ✗ 4. Gujarat

Question ID : **264330110839**
Status : **Not Answered**
Chosen Option : **--**

Q.5 **Who among the following was the head of the Diwan-i-Insha department under the Delhi sultanate?**

Ans
- ✓ 1. Dabir-i-Khas
- ✗ 2. Barid-i-Mumalik
- ✗ 3. Amir-i-Dad
- ✗ 4. Wakil-i-Dar

Question ID : **264330114081**
Status : **Not Answered**
Chosen Option : **--**

Q.6 **Which is the correct sequence of oceans according to size (from largest to smallest) ?**

Ans

✗ 1. Pacific Ocean > Antarctic Ocean > Indian Ocean > Atlantic Ocean

✗ 2. Pacific Ocean > Indian Ocean > Antarctic Ocean > Atlantic Ocean

✓ 3. Pacific Ocean > Atlantic Ocean > Indian Ocean > Antarctic Ocean

✗ 4. Pacific Ocean > Indian Ocean > Atlantic Ocean > Antarctic Ocean

Question ID : **264330110033**
Status : **Answered**
Chosen Option : **3**

Q.7 **In which year did Antoine Lavoisier publish 'Methods of Chemical Nomenclature', which included the rules for naming chemical compounds that are still in use today?**

Ans

✗ 1. 1783

✗ 2. 1780

✗ 3. 1790

✓ 4. 1787

Question ID : **26433064066**
Status : **Not Answered**
Chosen Option : **--**

Q.8 **At the 108th Indian Science Congress concluded at Rashtrasant Tukdoji Maharaj Nagpur University on 7 January 2023. Who among the following won the Dr CV Raman Birth Centenary Award?**

Ans

✗ 1. Prof Subhash Chandra Parija

✗ 2. Dr Ranjan Kumar Nandy

✓ 3. Prof SR Niranjana

✗ 4. Dr Kaushal Prasad Mishra

Question ID : **264330137254**
Status : **Not Answered**
Chosen Option : **--**

Q.9 **On the occasion of National Youth Day on 12th January 2023, also known as Vivekananda Jayanti, the Government of India gave awards to 82 of the best _____ of the country.**

Ans

✗ 1. engineers

✓ 2. agripreneurs

✗ 3. doctors

✗ 4. teachers

Question ID : **264330132589**
Status : **Marked For Review**
Chosen Option : **4**

Q.10 **Identify the option that arranges the following states' literacy rates in descending order, according to Census 2011.**
A. Kerala
B. Himachal Pradesh
C. Haryana

Ans

✗ 1. (A), (C), (B)

✗ 2. (B), (A), (C)

✗ 3. (C), (B), (A)

✓ 4. (A), (B), (C)

Question ID : **264330132752**
Status : **Answered**
Chosen Option : **4**

Q.11 Under Statutory liquidity ratio, commercial banks are required to keep a fraction of _____ in form of liquid assets.

Ans
- ✗ 1. current deposits
- ✓ 2. total demand and term deposits
- ✗ 3. term deposits
- ✗ 4. saving deposits

Question ID : **264330109091**
Status : **Not Answered**
Chosen Option : **--**

Q.12 Deepika Pallikal is associated with _____.

Ans
- ✓ 1. squash
- ✗ 2. billiards
- ✗ 3. chess
- ✗ 4. cricket

Question ID : **264330109720**
Status : **Not Answered**
Chosen Option : **--**

Q.13 Nor Westers are dreaded evening thunderstorms seen in _____.

Ans
- ✓ 1. Bengal and Assam
- ✗ 2. Punjab and Haryana
- ✗ 3. Rajasthan and Madhya Pradesh
- ✗ 4. Telangana and Maharashtra

Question ID : **264330119228**
Status : **Not Answered**
Chosen Option : **--**

Q.14 Which of the following institutions was set up in 1982 in order to streamline credit facilities to farmers at a national level?

Ans
- ✗ 1. NEDFI
- ✓ 2. NABARD
- ✗ 3. IFCI
- ✗ 4. SIDBI

Question ID : **264330109112**
Status : **Answered**
Chosen Option : **2**

Q.15 Who was the winner of ICC Men's T20 World Cup– 2021?

Ans
- ✗ 1. India
- ✗ 2. West Indies
- ✓ 3. Australia
- ✗ 4. England

Question ID : **26433054663**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.16 **Bhortal dance is famous in _____.**

Ans

✗ 1. Odisha

✗ 2. Madhya Pradesh

✗ 3. Punjab

✓ 4. Assam

Question ID : **264330109279**
Status : **Answered**
Chosen Option : **4**

Q.17 **In November 2022, which of the following Union Ministries has launched a month-long campaign titled, 'Nai Chetna–Pahal Badlav Ki' – A Community-led National Campaign against Gender-Based Discrimination?**

Ans

✓ 1. Ministry of Rural Development

✗ 2. Ministry of Culture

✗ 3. Ministry of Women and Child Development

✗ 4. Ministry of Social Justice and Empowerment

Question ID : **264330137269**
Status : **Answered**
Chosen Option : **4**

Q.18 **Hindustani vocalist Pandit M Venkatesh Kumar was awarded which of the following awards in 2022?**

Ans

✗ 1. Tagore Puraskar

✓ 2. Kalidas Samman

✗ 3. Sangeet Natak Akademi

✗ 4. Sangeeta Kalanidhi

Question ID : **26433090693**
Status : **Not Answered**
Chosen Option : **--**

Q.19 **Which of the following elements is highly effective for making a permanent magnet?**

Ans

✗ 1. Zinc

✗ 2. Aluminium

✗ 3. Copper

✓ 4. Steel

Question ID : **264330109893**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.20 **Which of the four Vedas contains a collection of magic spells and charms to fend off evil spirits and diseases?**

Ans

✗ 1. Rig Veda

✗ 2. Sama Veda

✗ 3. Yajur Veda

✓ 4. Atharva Veda

Question ID : **264330114802**
Status : **Marked For Review**
Chosen Option : **4**

Q.21 Which Article of the Indian Constitution deals with the Right against Exploitation?

Ans
- ✗ 1. Article 22
- ✓ 2. Article 23
- ✗ 3. Article 21
- ✗ 4. Article 20

Question ID : **264330144217**
Status : **Answered**
Chosen Option : **2**

Q.22 By which of the following acts was a bicameral legislature introduced in India at the centre level?

Ans
- ✗ 1. Indian councils Act of 1861
- ✗ 2. Regulating Act of 1773
- ✓ 3. Government of India Act of 1919
- ✗ 4. Government of India Act of 1935

Question ID : **264330130612**
Status : **Not Answered**
Chosen Option : **--**

Q.23 The National Highway Authority of India (NHAI) was operationalised in which year?

Ans
- ✗ 1. 2005
- ✗ 2. 2000
- ✗ 3. 1993
- ✓ 4. 1995

Question ID : **264330109493**
Status : **Not Answered**
Chosen Option : **--**

Q.24 How many times in a year is the Bihu festival celebrated in Assam?

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

Question ID : **264330109605**
Status : **Answered**
Chosen Option : **4**

Q.25 Which of the following groups of classical dancers is related to Kathak?

Ans
- ✗ 1. Yamini Krishnamurthy, Shobha Naidu and Swapnasundari
- ✓ 2. Sitara Devi, Shaswati Sen and Urmila Nagar
- ✗ 3. Alarmel Valli, Malavika Sarukkai and Sucheta Chaphekar
- ✗ 4. Kumkum Mohanty, Sonal Mansingh and Kiran Sehgal

Question ID : **264330141778**
Status : **Answered**
Chosen Option : **2**

Section : **Quantitative Aptitude**

Q.1 **The ratio of the number of boys in a school to the total number of boys and girls in that school is 7 : 17. If the number of boys in that school is 1099, then how many girls are there in that school?**

Ans

✔ 1. 1570

✘ 2. 1580

✘ 3. 1560

✘ 4. 1550

Question ID : **264330131167**
Status : **Answered**
Chosen Option : **1**

Q.2 For congruent triangles ΔABC and ΔDEF, which of the following statements is correct?

Ans

✘ 1. $\text{Perimeter of } \Delta ABC = \frac{1}{2} \text{Perimeter of } \Delta DEF$

✔ 2. $\text{Perimeter of } \Delta ABC = \text{Perimeter of } \Delta DEF$

✘ 3. $\text{Perimeter of } \Delta ABC < \text{Perimeter of } \Delta DEF$

✘ 4. $\text{Perimeter of } \Delta ABC > \text{Perimeter of } \Delta DEF$

Question ID : **26433083066**
Status : **Answered**
Chosen Option : **2**

Q.3 **Ram and Shyam are racing along a circular track. The speed of Ram is thrice the speed of Shyam. The length of the circular track is 1440 m. After the start of the race from the same point simultaneously, Ram meets Shyam for the first time at the end of the 8^{th} minute. If Ram and Shyam start the race again from the same starting point simultaneously, then the time taken by Shyam to finish the race is: (given that the length of the race is same as the length of the track)**

Ans

✘ 1. 7.5 min

✔ 2. 16 min

✘ 3. 30 min

✘ 4. 22.5 min

Question ID : **26433079960**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.4 **Pipe A and pipe B running together can fill a cistern in 6 minutes. If B takes 5 minutes more than A to fill it, then the time in which A and B will fill that cistern separately will be, respectively, _____.**

Ans

✘ 1. 15 min and 10 min

✘ 2. 15 min and 20 min

✘ 3. 25 min and 20 min

✔ 4. 10 min and 15 min

Question ID : **264330143488**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.5 If $(a^3 + b^3 + c^3 - 3abc) = 405$, and $(a-b)^2 + (b-c)^2 + (c-a)^2 = 54$, find the value of $(a + b + c)$.

Ans
✔ 1. 15
✘ 2. 45
✘ 3. 9
✘ 4. 27

Question ID : **264330101358**
Status : **Answered**
Chosen Option : **1**

Q.6 What is the surface area (in cm^2) of a spherical sculpture whose radius is 35 cm?
(Take $\pi = \frac{22}{7}$)

Ans
✘ 1. 16540
✘ 2. 15700
✔ 3. 15400
✘ 4. 14500

Question ID : **264330103345**
Status : **Answered**
Chosen Option : **3**

Q.7 **Pipe A can fill 50% of the tank in 6 hours and pipe B can completely fill the same tank in 18 hours. If both the pipes are opened at the same time, in how much time (in minutes) will the empty tank be completely filled?**

Ans
✘ 1. 420
✘ 2. 425
✔ 3. 432
✘ 4. 435

Question ID : **264330120032**
Status : **Answered**
Chosen Option : **3**

Q.8 A 9-digit number 846523X7Y is divisible by 9, and $Y - X = 6$.
Find the value of $\sqrt{2X + 4Y}$.

Ans
✘ 1. 4
✘ 2. 2
✔ 3. 6
✘ 4. 8

Question ID : **264330130225**
Status : **Answered**
Chosen Option : **3**

Q.9 $\triangle ABC$ is a right triangle. If $\angle B = 90°$ and $\tan A = \frac{1}{\sqrt{3}}$, then the value of $\sin A \cos C + \cos A \sin C$ is:

Ans

✔ 1. 1

✘ 2. 2

✘ 3. $\frac{2}{3}$

✘ 4. $\frac{1}{3}$

Question ID : **26433076118**
Status : **Answered**
Chosen Option : **1**

Q.10 **A policeman spots a thief at a distance of 360 m. Both the policeman and the thief simultaneously start running, with the former chasing the latter. While the thief runs at the speed of 8 km/h, the policeman runs at 9.2 km/h. How many metres will the policeman have to run before he catches up with the thief?**

Ans

✘ 1. 2852

✘ 2. 2714

✘ 3. 2668

✔ 4. 2760

Question ID : **264330131190**
Status : **Answered**
Chosen Option : **4**

Q.11 **Which of the following will yield maximum discount on ₹7,500?**
1. Two successive discounts of 5% and 5%
2. Single discount of 10%
3. Two successive discounts of 8% and 2%

Ans

✔ 1. 2

✘ 2. 1

✘ 3. All will yield the same discount

✘ 4. 3

Question ID : **264330104185**
Status : **Answered**
Chosen Option : **1**

Q.12 **Study the given table and answer the question that follows.**
The table gives the number of graduate students enrolled in 4 different colleges A, B, C, and D in a city over the years 2010 to 2014 and also the number of students who passed in the final examination during these years.

Year	2010	2010	2011	2011	2012	2012	2013	2013	2014	2014
College	Enrolled	Pass	Enrolled	Pass	Enrolled	Pass	Enrolled	Pass	Enrolled	Pass
A	680	620	600	560	720	700	800	760	750	700
B	550	530	450	420	600	550	650	620	700	680
C	480	450	520	500	580	550	620	600	720	700
D	710	650	750	710	680	640	720	690	740	710

Find the percentage of students who passed from college B for all the years put together to the number of students from college B during all the years (rounded to 2 decimals).

Ans

✔ 1. 94.92%

✘ 2. 94.98%

✘ 3. 94.95%

✘ 4. 94.96%

Question ID : **264330129948**
Status : **Answered**
Chosen Option : **1**

Q.13 If $(a + b + c) = 13$, and $(ab + bc + ca) = 54$, find the value of $(a^2 + b^2 + c^2)$.

Ans

✗ 1. 63

✗ 2. 65

✓ 3. 61

✗ 4. 59

Question ID : **264330101343**
Status : **Answered**
Chosen Option : **3**

Q.14 If $\frac{21\cos A+3\sin A}{3\cos A+4\sin A} = 2$,then find the value of cot A

Ans

✗ 1. $\frac{9}{11}$

✗ 2. $\frac{11}{9}$

✓ 3. $\frac{1}{3}$

✗ 4. $\frac{11}{10}$

Question ID : **26433076317**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.15 **A can complete a piece of work alone in 120 days, while A and B, working together, can complete this piece of work in 72 days. In how many days can B, working alone, complete this piece of work?**

Ans

✓ 1. 180

✗ 2. 200

✗ 3. 160

✗ 4. 216

Question ID : **264330131192**
Status : **Answered**
Chosen Option : **1**

Q.16 **The interest earned on ₹21,000 in 3 years at simple interest is ₹6,400. What is the rate of interest per annum?**

Ans

✗ 1. $10\frac{5}{63}\%$

✗ 2. $10\frac{2}{63}\%$

✗ 3. $10\frac{13}{63}\%$

✓ 4. $10\frac{10}{63}\%$

Question ID : **264330104521**
Status : **Answered**
Chosen Option : **4**

Q.17 **Each inlet pipe can fill an empty cistern in 84 hours while each drain pipe can empty the same cistern from a filled condition in 105 hours. When the cistern is empty, 9 inlet pipes and 10 outlet pipes are simultaneously opened. After how many hours will the cistern be completely filled?**

Ans

✔ 1. 84

✘ 2. 88

✘ 3. 80

✘ 4. 90

Question ID : **264330122852**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.18 In a right triangle for an acute angle x, if $\sin x = \frac{3}{7}$, then find the value of cosx.

Ans

✘ 1. $\frac{2}{7}$

✘ 2. $\frac{3}{4}$

✘ 3. $\frac{1}{\sqrt{3}}$

✔ 4. $\frac{2\sqrt{(10)}}{7}$

Question ID : **26433076116**
Status : **Answered**
Chosen Option : **4**

Q.19 **In a class of 60 students, there are 35 boys. The average weight of boys is 42 kg and the average weight of the full class is 46.5 kg. Find the average weight of girls in the class.**

Ans

✘ 1. 48.7 kg

✘ 2. 49.7 kg

✔ 3. 52.8 kg

✘ 4. 56.7 kg

Question ID : **264330131826**
Status : **Answered**
Chosen Option : **3**

Q.20 **The area of a sector of a circle is 110 cm^2 and the central angle of the sector is 56°, what is the radius of the circle? (Take π=22/7)**

Ans

✘ 1. 35 cm

✘ 2. 20 cm

✘ 3. 25 cm

✔ 4. 15 cm

Question ID : **264330143614**
Status : **Answered**
Chosen Option : **4**

Q.21 **If, in a competitive exam, the marks obtained by Sam are 19% less than those of Peter, then the marks obtained by Peter are how much percentage more than the marks obtained by Sam? (Correct to two decimal places)**

Ans

✗ 1. 28.64%

✗ 2. 22.25%

✗ 3. 21.50%

✓ 4. 23.46%

Question ID : **264330102325**
Status : **Answered**
Chosen Option : **2**

Q.22 The following table shows the percentage distribution of employees in five different departments 1-5 in a company during the years 2020 and 2021.

The total number of employees in 2020 and 2021 is 1200 and 1600, respectively.

Year	Departments				
	Department 1	Department 2	Department 3	Department 4	Department 5
2020	24	21	20	19	16
2021	21	22	18	19	20

In which department is the variation in strength of employees maximum in 2021 in comparison to that in 2020?

Ans

✗ 1. Department 1

✗ 2. Department 4

✓ 3. Department 5

✗ 4. Department 2

Question ID : **26433087398**
Status : **Answered**
Chosen Option : **3**

Q.23 If $x + \frac{1}{x} = 1$, then the value of $\frac{x^2 + 7x + 1}{x^2 + 11x + 1} = ?$

Ans

✗ 1. $\frac{3}{4}$

✓ 2. $\frac{2}{3}$

✗ 3. $\frac{1}{3}$

✗ 4. $\frac{1}{4}$

Question ID : **264330126228**
Status : **Answered**
Chosen Option : **2**

Q.24 **What is the value of 6 – (6 ÷ 2 – 3 + 7 – 2) × [{3 – 2 ÷ 2} × 5 – 6]?**

Ans

✗ 1. −4

✓ 2. −14

✗ 3. −12

✗ 4. −16

Question ID : **264330143490**
Status : **Answered**
Chosen Option : **2**

Q.25 **A petrol tank is of length 50 m, breadth 25 m, and depth 10 m. How many litres of petrol can be accommodated in the petrol tank when it is completely filled?**

Ans
✔ 1. 1,25,00,000
✘ 2. 12,50,000
✘ 3. 1,25,000
✘ 4. 12500

Question ID : **264330104000**
Status : **Answered**
Chosen Option : **4**

Section : **English Comprehension**

Q.1 **Select the most appropriate meaning of the underlined phrase.**

Though very rich, Alexander always saves for a rainy day.

Ans
✔ 1. Saves money for later
✘ 2. Lives like a miser
✘ 3. Spends too much
✘ 4. Accumulates less wealth

Question ID : **26433089350**
Status : **Answered**
Chosen Option : **1**

Q.2 **Select the option that can be used as a one-word substitute for the given group of words.**

The murder of a large number of people from a particular nation or ethnic group.

Ans
✘ 1. Geronticide
✘ 2. Honour killing
✔ 3. Genocide
✘ 4. Mariticide

Question ID : **26433087912**
Status : **Answered**
Chosen Option : **3**

Q.3 **Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.**

A. According to him, Rupees 75 lakhs has been spent to make the gymnasium fully equipped with state-of-the-art fitness machines.
B. The Honorable Commissioner of Police inaugurated the Gymnasium and Swimming pool and appended the management for their efforts in providing such amenities to students.
C. A new indoor gymnasium and swimming pool was inaugurated at APJ International School, Goa.
D. Mr. Mercia, the Principal of the school familiarised the guests about the cost incurred and the various facilities available.

Ans
✔ 1. CBDA
✘ 2. BDCA
✘ 3. ADBC
✘ 4. DABC

Question ID : **26433096960**
Status : **Answered**
Chosen Option : **1**

Q.4 **Select the most appropriate ANTONYM of the underlined word.**
The musician gave a dismal performance of a few old melodies at last night's concert.

Ans
✗ 1. smart
✗ 2. melancholy
✗ 3. exhausting
✓ 4. lively

Question ID : **264330122972**
Status : **Marked For Review**
Chosen Option : **3**

Q.5 **Select the most appropriate synonym for the highlighted word.**
His modest nature made all the difference.

Ans
✗ 1. courageous
✗ 2. horrific
✓ 3. shy
✗ 4. dry

Question ID : **264330120716**
Status : **Answered**
Chosen Option : **1**

Q.6 **Select the option that expresses the given sentence in past tense form.**

The methods Arunima adopts for taming the dogs create awe and wonder among them.

Ans
✓ 1. The methods Arunima adopted for taming the dogs created awe and wonder among them.
✗ 2. The methods Arunima adopts for taming the dogs created awe and wonder among them.
✗ 3. The methods Arunima adopted for taming the dogs create awe and wonder among them.
✗ 4. The methods Arunima adopts for taming the dogs will create awe and wonder among them.

Question ID : **26433089299**
Status : **Answered**
Chosen Option : **1**

Q.7 **Choose the most appropriate meaning of the underlined phrase.**
His voice gets on my nerves.

Ans
✗ 1. Makes me ill
✗ 2. Pierces my eardrums
✓ 3. Irritates me
✗ 4. Makes me sad

Question ID : **264330137450**
Status : **Answered**
Chosen Option : **3**

Q.8 **Select the option that can be used as a one-word substitute for the given group of words.**
Life history written by oneself.

Ans
✗ 1. Autography
✓ 2. Autobiography
✗ 3. Autophagy
✗ 4. Autocracy

Question ID : **26433086365**
Status : **Answered**
Chosen Option : **2**

Q.9 **The following sentence has been split into four segments. Identify the segment that contains a grammatical error.**

You should / see a oculist; / your eyes look / worse today.

Ans
✗ 1. your eyes look
✗ 2. You should
✗ 3. worse today
✓ 4. see a oculist;

Question ID : **26433092284**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.10 **Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.**
A. Diwali, referred to as the 'festival of lights', ushers in the winter season with joy, shopping, presents, and a slew of new occasions and celebrations, such as Dussehra, Dhanteras, Govardhan, Bhaidooj, and Narak Chaturdashi.
B. In the spiritual world, the event symbolises 'the triumph of light over darkness'.
C. The five-day festival of Diwali is observed during the Hindu month of Kartika as an event.
D. In India, Diwali is also known as Deepawali.

Ans
✗ 1. BACD
✗ 2. DBCA
✗ 3. CDBA
✓ 4. ACBD

Question ID : **264330117126**
Status : **Answered**
Chosen Option : **4**

Q.11 **Select the most appropriate ANTONYM of the underlined word.**
She <u>chided</u> her son for being impatient with the customers.

Ans
✗ 1. reproved
✗ 2. scolded
✓ 3. applauded
✗ 4. rebuked

Question ID : **264330122967**
Status : **Answered**
Chosen Option : **3**

Q.12 **Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.**

A.This has an impact not just on global poverty, but also on Indians' awareness of the country's poverty for the first time in a decade.
B.And, for the first time in a decade, this update includes India's poverty data.
C.From 15 September 2022, a new global poverty line has been established, with the World Bank revising its data in the Poverty and Inequality Platform on this basis.
D.According to Sunitha Sinha, Roy and Roy van der Weide of the World Bank's Policy Research Working Paper, "poverty in India had dropped over the recent decade, although not as much as previously thought."

Ans
✗ 1. DBAC
✓ 2. CBAD
✗ 3. CADB
✗ 4. DBCA

Question ID : **26433096988**
Status : **Answered**
Chosen Option : **4**

Q.13 **Select the option that expresses the given sentence in active voice.**
Were the cakes being baked by them?

Ans
✓ 1. Were they baking the cakes?
✗ 2. Did the cakes baked by them?
✗ 3. Were they baking the cake?
✗ 4. Was cakes being baked by them?

Question ID : **264330141141**
Status : **Answered**
Chosen Option : **1**

Q.14 **Select the INCORRECTLY spelt word.**

Ans
✗ 1. Hinterland
✗ 2. Haughty
✗ 3. Drifter
✓ 4. Bellweather

Question ID : **264330120622**
Status : **Answered**
Chosen Option : **1**

Q.15 **Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.**
Honesty as well as discipline <u>are required to succeed in life.</u>

Ans
✗ 1. are requirement to succeed in life
✓ 2. is required to succeed in life
✗ 3. has required to succeed in life
✗ 4. No substitution

Question ID : **26433093083**
Status : **Answered**
Chosen Option : **2**

Q.16 **Select the most appropriate option to fill in the blank.**
The actress is very _____ and takes pride in her appearance all the time.

Ans
✗ 1. vein
✗ 2. wane
✗ 3. vane
✓ 4. vain

Question ID : **264330101450**
Status : **Answered**
Chosen Option : **4**

Q.17 **Select the option that expresses the given sentence in passive voice.**
The tour guide always answers the visitors' questions.

Ans
✗ 1. The visitors' question was always answered by the tour guide.
✗ 2. The visitors' questions are answered by the tour guide always.
✓ 3. The visitors' questions are always answered by the tour guide.
✗ 4. The visitors' questions are answered always by the tour guide.

Question ID : **264330137228**
Status : **Answered**
Chosen Option : **3**

Q.18 **Select the INCORRECTLY spelt word in the given sentence.**

To achieve somthing gigantic, you have to grind for a considerable amount of time.

Ans
✓ 1. somthing
✗ 2. considerable
✗ 3. gigantic
✗ 4. achieve

Question ID : **26433089737**
Status : **Answered**
Chosen Option : **1**

Q.19 **Select the most appropriate homonym to fill in the blank.**
Please _____more sugar to the juice so that it becomes sweeter

Ans
✗ 1. aide
✗ 2. ad
✗ 3. aid
✓ 4. add

Question ID : **264330145555**
Status : **Answered**
Chosen Option : **4**

Q.20 **Choose the ANTONYM of the word 'disenfranchise' in the given sentence.**

The parliament of Tonoco authorised the king to take over the reins of the government and disable the power of the council of ministers.

Ans
✓ 1. Authorised
✗ 2. Powers
✗ 3. Disabled
✗ 4. Reins

Question ID : **26433088901**
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.

Exploring new places is an exciting way to (1) _____ your horizons and experience different cultures. Whether you prefer to travel by different modes of transportation like boat or aeroplane, there are many ways to get around and see the world. One of the benefits of exploring new places is the (2) _____ to try new foods and cuisines. You can also visit famous landmarks, attend cultural events and meet people from all walks of life. When travelling, it's important to (3) _____ calm and flexible. Unexpected delays and changes can happen, so it's helpful to have a backup plan and be willing to adapt. Another important (4) _____ of travel is sustainability. By being mindful of your impact on the environment and local communities, you can travel in a responsible and sustainable way. With so many (5)_____, the world is yours to explore.

SubQuestion No : 21

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

Ans

✗ 1. constrict

✓ 2. broaden

✗ 3. localise

✗ 4. contract

Question ID : **264330133343**
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.

Exploring new places is an exciting way to (1) _____ your horizons and experience different cultures. Whether you prefer to travel by different modes of transportation like boat or aeroplane, there are many ways to get around and see the world. One of the benefits of exploring new places is the (2) _____ to try new foods and cuisines. You can also visit famous landmarks, attend cultural events and meet people from all walks of life. When travelling, it's important to (3) _____ calm and flexible. Unexpected delays and changes can happen, so it's helpful to have a backup plan and be willing to adapt. Another important (4) _____ of travel is sustainability. By being mindful of your impact on the environment and local communities, you can travel in a responsible and sustainable way. With so many (5)_____, the world is yours to explore.

SubQuestion No : 22

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

Ans

✓ 1. opportunity

✗ 2. disadvantage

✗ 3. hinderance

✗ 4. obstacle

Question ID : **264330133344**
Status : **Answered**
Chosen Option : **1**

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.

Exploring new places is an exciting way to (1) _____ your horizons and experience different cultures. Whether you prefer to travel by different modes of transportation like boat or aeroplane, there are many ways to get around and see the world. One of the benefits of exploring new places is the (2) _____ to try new foods and cuisines. You can also visit famous landmarks, attend cultural events and meet people from all walks of life. When travelling, it's important to (3) _____ calm and flexible. Unexpected delays and changes can happen, so it's helpful to have a backup plan and be willing to adapt. Another important (4) _____ of travel is sustainability. By being mindful of your impact on the environment and local communities, you can travel in a responsible and sustainable way. With so many (5)_____, the world is yours to explore.

SubQuestion No : 23

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

Ans

✗ 1. contract

✗ 2. lose

✓ 3. stay

✗ 4. localise

Question ID : **264330133345**
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.

Exploring new places is an exciting way to (1) _____ your horizons and experience different cultures. Whether you prefer to travel by different modes of transportation like boat or aeroplane, there are many ways to get around and see the world. One of the benefits of exploring new places is the (2) _____ to try new foods and cuisines. You can also visit famous landmarks, attend cultural events and meet people from all walks of life. When travelling, it's important to (3) _____ calm and flexible. Unexpected delays and changes can happen, so it's helpful to have a backup plan and be willing to adapt. Another important (4) _____ of travel is sustainability. By being mindful of your impact on the environment and local communities, you can travel in a responsible and sustainable way. With so many (5)_____, the world is yours to explore.

SubQuestion No : 24

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

Ans

✗ 1. constant

✗ 2. entirely

✓ 3. aspect

✗ 4. detail

Question ID : **264330133346**
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.

Exploring new places is an exciting way to (1) _____ your horizons and experience different cultures. Whether you prefer to travel by different modes of transportation like boat or aeroplane, there are many ways to get around and see the world. One of the benefits of exploring new places is the (2) _____ to try new foods and cuisines. You can also visit famous landmarks, attend cultural events and meet people from all walks of life. When travelling, it's important to (3) _____ calm and flexible. Unexpected delays and changes can happen, so it's helpful to have a backup plan and be willing to adapt. Another important (4) _____ of travel is sustainability. By being mindful of your impact on the environment and local communities, you can travel in a responsible and sustainable way. With so many (5)_____, the world is yours to explore.

SubQuestion No : 25

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

Ans

✗ 1. contaminants

✗ 2. barriers

✓ 3. possibilities

✗ 4. limitations

Question ID : **264330133347**
Status : **Answered**
Chosen Option : **3**