Combined Graduate level Examination 2023 Tier I

Roll Number	
Candidate Name	
Venue Name	
Exam Date	20/07/2023
Exam Time	9:00 AM - 10:00 AM
Subject	Combined Graduate Level Examination Tier I 2023

Section : **General Intelligence and Reasoning**

Q.1 Three different positions of the same dice are shown. Find the number on the face opposite the face showing '6'.

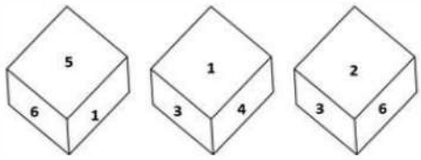


Figure 1 Figure 2 Figure 3

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

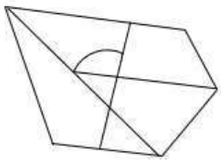
Question ID : **26433082887**
Status : **Answered**
Chosen Option : **2**

Q.2 **Which of the following numbers will replace the question mark (?) in the given series?**
18, 23, ?, 41, 54, 71

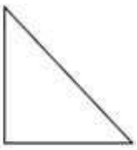
Ans
- ✗ 1. 29
- ✓ 2. 30
- ✗ 3. 32
- ✗ 4. 34

Question ID : **26433090933**
Status : **Answered**
Chosen Option : **3**

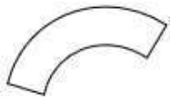
Q.3 Select the option figure which is embedded in the given figure (rotation is NOT allowed).



Ans

✗ 1. 

✓ 2.

✗ 3. 

✗ 4.

Question ID : **26433097264**
Status : **Answered**
Chosen Option : **2**

Q.4 **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.**
RAT : IZG :: YUM : BFN :: SIP : ?

Ans
✗ 1. GJK
✗ 2. GRK
✓ 3. HRK
✗ 4. HJK

Question ID : **264330104096**
Status : **Answered**
Chosen Option : **3**

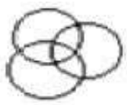
Q.5 **In a certain code language, 'BARBIE' is written as '222', 'ELSA' is written as '148'. How will 'ARIEL' be written in that language?**

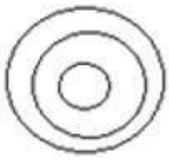
Ans
✗ 1. 325
✓ 2. 225
✗ 3. 420
✗ 4. 125

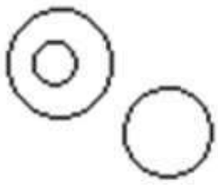
Question ID : **26433087258**
Status : **Answered**
Chosen Option : **2**

Q.6 **Select the Venn diagram that best illustrates the relationship between the following classes.**
Cricket, Athlete, Sport

Ans

✗ 1. 

✗ 2. 

✓ 3. 

✗ 4.

Question ID : **264330145448**
Status : **Answered**
Chosen Option : **4**

Q.7 **Which of the following interchanges of signs would make the given equation correct?**
173 ÷ 169 + 13 × 5 – 13 = 225

Ans

✗ 1. + and –

✗ 2. ÷ and –

✓ 3. ÷ and +

✗ 4. – and ×

Question ID : **264330114241**
Status : **Answered**
Chosen Option : **3**

Q.8 **The second number in the given number-pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) is/are followed in all the number-pairs except one. Find that odd number-pair.**

Ans

✓ 1. 80 : 9

✗ 2. 142 : 12

✗ 3. 23 : 5

✗ 4. 7 : 3

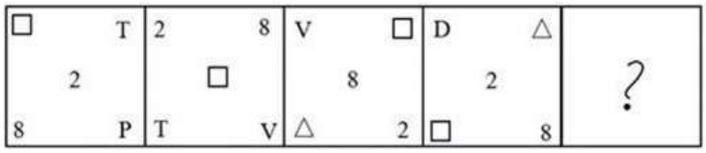
Question ID : **264330143706**
Status : **Answered**
Chosen Option : **1**

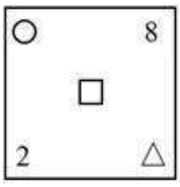
Q.9 **Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.**
DELIGHT : UJJMQKK :: PLIGHT : UJJMQV :: CREATE : ?

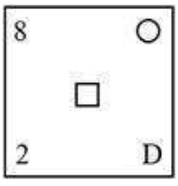
Ans
✗ 1. FUBFSD
✗ 2. ETAERC
✗ 3. FVDIRC
✓ 4. FVDIWI

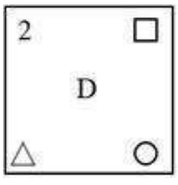
Question ID : **26433090018**
Status : **Answered**
Chosen Option : **4**

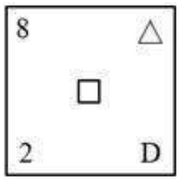
Q.10 Select the figure that will replace the question mark (?) in the following figure series.



Ans
✗ 1. 

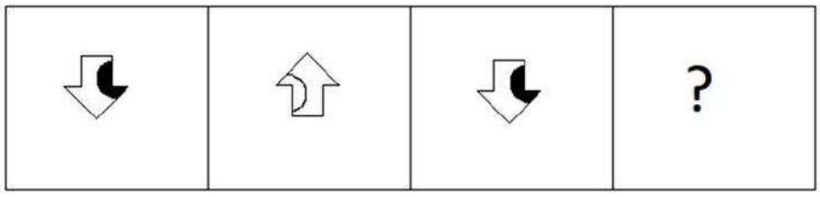
✓ 2. 

✗ 3. 

✗ 4. 

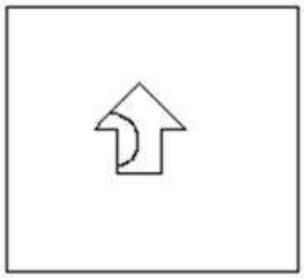
Question ID : **264330143845**
Status : **Answered**
Chosen Option : **3**

Q.11 Select the figure that will come next in the following figure series.

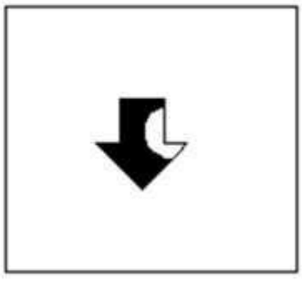


Ans

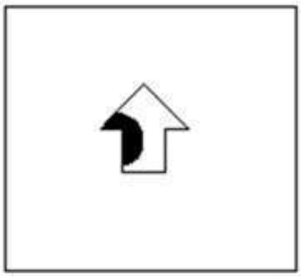
✔ 1.



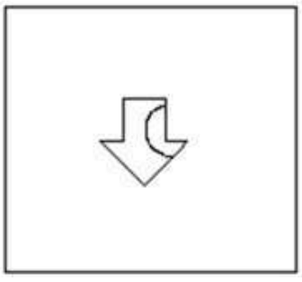
✘ 2.



✘ 3.



✘ 4.



Question ID : **26433087065**
Status : **Answered**
Chosen Option : **1**

Q.12 **Select the option that represents the correct order of the given words as they would appear in an English dictionary.**
1. Dissolve
2. Display
3. Distance
4. Disturb
5. Displace
6. Dispute

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

Question ID : **264330132164**
Status : **Answered**
Chosen Option : **3**

Q.13 **'A + B' means 'A is the son of B'.**
'A – B' means 'A is the wife of B'.
'A × B' means 'A is the father of B'.
'A ÷ B' means 'A is the sister of B'.
If A + P – Q × R – S, then which of the following statements is NOT correct?

Ans
✗ 1. A is the brother of wife of S.
✗ 2. P is the mother of A.
✗ 3. Q is the father of A.
✓ 4. A is the son of S.

Question ID : **264330122042**
Status : **Answered**
Chosen Option : **4**

Q.14 **Select the set in which the numbers are related in the same way as are the numbers of the following set.**
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding /Subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(12 , 4 , 64)
(8 , 6 , 14)

Ans
✗ 1. (7, 3, 28)
✗ 2. (10, 6, 42)
✗ 3. (11, 9, 15)
✓ 4. (9, 5, 28)

Question ID : **26433092726**
Status : **Not Answered**
Chosen Option : **--**

Q.15 **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)
(14, 10, 296)
(8, 17, 353)

Ans
✗ 1. (29, 7, 690)
✗ 2. (18, 6, 576)
✓ 3. (5, 13, 194)
✗ 4. (12, 3, 135)

Question ID : **26433056509**
Status : **Answered**
Chosen Option : **3**

Q.16 **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.**
SAME : WDOF :: LIFE : PLHF :: GOAL : ?

Ans
✓ 1. KRCM
✗ 2. KRBM
✗ 3. KSCM
✗ 4. JRCM

Question ID : **26433086980**
Status : **Answered**
Chosen Option : **1**

Q.17 **Which of the following letter-clusters will replace the question mark (?) in the given series?**
LCAZ, NECX, PGEV, ?, TKIR

Ans
✗ 1. QHFV
✗ 2. SJHS
✓ 3. RIGT
✗ 4. TKHS

Question ID : **26433089976**
Status : **Answered**
Chosen Option : **3**

Q.18 **Select the correct combination of mathematical signs that can sequentially replace the * signs and balance the given equation.**
11 * 13 * 238 * 17 * 34 = 123

Ans
✗ 1. + × – ÷
✓ 2. × + ÷ –
✗ 3. + ÷ × –
✗ 4. ÷ – + ×

Question ID : **264330122472**
Status : **Answered**
Chosen Option : **2**

Q.19 **Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.**
MAL_VY_MALIV_OM_LIVYO_A_I_YO

Ans
1. IOYALVM
2. IYOMALV
3. IOYAMLV
4. IYOMAVL

Question ID : **264330131034**
Status : **Answered**
Chosen Option : **3**

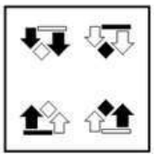
Q.20 **In a certain code language, if 'FILM' is written as '9121516' and 'EAST' is written as '842223', how will 'HOME' be written in the same code language?**

Ans
1. 1216157
2. 1118168
3. 1218167
4. 1017178

Question ID : **264330126651**
Status : **Answered**
Chosen Option : **2**

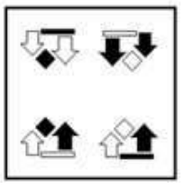
Q.21 Which of the answer figures is the exact mirror image of the given problem figure when the mirror is held at the right side?

Problem figure:

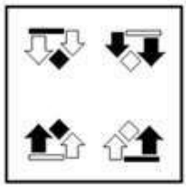


Ans

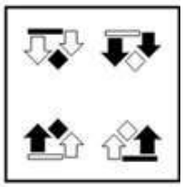
✗ 1.



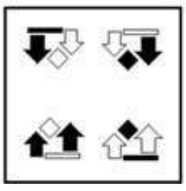
✗ 2.



✓ 3.



✗ 4.



Question ID : **26433067413**
Status : **Answered**
Chosen Option : **3**

Q.22 Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown.

D A 6 7 Y b

P —— Q

Ans

✗ 1. d Y 7 ə A ↄ

✗ 2. D ∀ 9 ⅄ ʎ ԁ

✓ 3. D ∀ ɐ ⅄ ʎ ԁ

✗ 4. D ∀ ɐ ⅄ ʎ ԛ

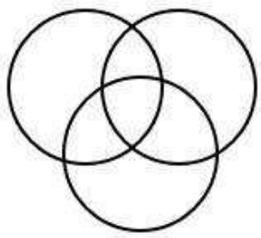
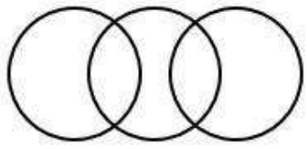
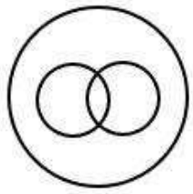
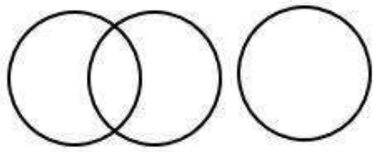
Question ID : **26433056840**
Status : **Answered**
Chosen Option : **3**

Q.23 **Select the set in which the numbers are related in the same way as 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.)**
(14, 60, 16)
(12, 40, 8)

Ans
✔ 1. (19, 80, 21)
✘ 2. (15, 45, 30)
✘ 3. (25, 120, 15)
✘ 4. (20, 30, 40)

Question ID : **26433069226**
Status : **Answered**
Chosen Option : **1**

Q.24 **Select the Venn diagram that best illustrates the relationship between the following classes.**
Football fans, Cricket fans, Doctors

Ans
✔ 1.

✘ 2.

✘ 3.

✘ 4.


Question ID : **264330145434**
Status : **Answered**
Chosen Option : **3**

Q.25 Study the given pattern carefully and select the number that can replace the question mark (?) in it.
First row: 15, 3, 252
Second row: 11, 5, 246
Third row: 9, 6, ?
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans
✗ 1. 277
✗ 2. 299
✗ 3. 279
✓ 4. 297

Question ID : **26433069125**
Status : **Answered**
Chosen Option : **4**

Section : **General Awareness**

Q.1 According to the Indian calendar, Hemanta season falls in which months?

Ans
✗ 1. Sravana-Bhadra
✗ 2. Chaitra-Vaisakha
✗ 3. Jyaistha-Asadha
✓ 4. Margashirsa-Pausa

Question ID : **264330116464**
Status : **Not Answered**
Chosen Option : **--**

Q.2 Which of the following has the highest boiling point?

Ans
✗ 1. Alkenes
✗ 2. Alkanes
✗ 3. Free carbon dioxide
✓ 4. Alkynes

Question ID : **264330109894**
Status : **Not Answered**
Chosen Option : **--**

Q.3 When was the National Urban Health Mission approved by the Government of India?

Ans
✗ 1. 2014
✗ 2. 2015
✗ 3. 2012
✓ 4. 2013

Question ID : **264330110636**
Status : **Not Answered**
Chosen Option : **--**

Q.4 According to Census of India 2011, which group of states of India has the highest population?

Ans
- ✔ 1. Uttar Pradesh and Maharashtra
- ✘ 2. Arunachal Pradesh and Manipur
- ✘ 3. Maharashtra and Bihar
- ✘ 4. Uttar Pradesh and Bihar

Question ID : **264330132743**
Status : **Answered**
Chosen Option : **1**

Q.5 Which of the following cyclones did NOT hit India during the years 2021-2022?

Ans
- ✘ 1. Yaas
- ✔ 2. Julia
- ✘ 3. Tauktae
- ✘ 4. Gulab

Question ID : **264330109944**
Status : **Not Answered**
Chosen Option : **--**

Q.6 Identify the function of lipase in the process of digestion.

Ans
- ✘ 1. Breaking down roughage
- ✔ 2. Breaking down emulsified fats
- ✘ 3. Secreting intestinal fluids
- ✘ 4. Digesting proteins

Question ID : **26433087862**
Status : **Not Answered**
Chosen Option : **--**

Q.7 Who among the following Kathak dancers of India founded the KADAMB Centre for Dance in 1964?

Ans
- ✘ 1. Shovana Narayan
- ✘ 2. Sitara Devi
- ✘ 3. Rohini Bhate
- ✔ 4. Kumudini Lakhia

Question ID : **26433094879**
Status : **Not Answered**
Chosen Option : **--**

Q.8 Which of the following is the correct match of the column-A with column-B?

Column-A (Name of Disease)	Column-B (Affected Organs)
i. Alzheimer's diseases	a. Salivary glands
ii. Diphtheria	b. Reproductive tract
iii. Gonorrhoea	c. Brain
iv. Mumps	d. Nose and throat

Ans
✗ 1. i-c, ii-a, iii-b, iv-d
✗ 2. i-d, ii-c, iii-b, iv-a
✗ 3. i-c, ii-d, iii-a, iv-b
✓ 4. i-c, ii-d, iii-b, iv-a

Question ID : **264330131790**
Status : **Answered**
Chosen Option : **4**

Q.9 Which of the following is NOT an initiative by the government for development of the microfinance sector in India?

Ans
✓ 1. Pradhan Mantri Jan Dhan Yojana
✗ 2. E-Shakti Initiative
✗ 3. Pradhan Mantri Mudra Yojana
✗ 4. India Micro Finance Equity Fund

Question ID : **26433064855**
Status : **Not Answered**
Chosen Option : **--**

Q.10 The maximum distance covered in a marathon is _____.

Ans
✗ 1. 40 km
✗ 2. 42.5 km
✓ 3. 42.195 km
✗ 4. 41.5 km

Question ID : **264330110378**
Status : **Not Answered**
Chosen Option : **--**

Q.11 Elphinstone was the Governor of which province of India during 1819-27?

Ans
✗ 1. North West Frontier province
✗ 2. Madras
✗ 3. Bengal
✓ 4. Bombay

Question ID : **264330132683**
Status : **Not Answered**
Chosen Option : **--**

Q.12 India won the Thomas Cup in the year _____.

Ans
1. 2018
2. 2019
3. 2022
4. 2020

Question ID : **264330109707**
Status : **Not Answered**
Chosen Option : **--**

Q.13 Who was the president of the second session of the Indian National Congress?

Ans
1. Dadabhai Naoroji
2. Womesh Chandra Bonnerjee
3. Pherozeshah Mehta
4. George Yule

Question ID : **264330111406**
Status : **Answered**
Chosen Option : **1**

Q.14 Who among the following was a Padma Bhushan awardee, legendary Bharatanatyam exponent, theosophist and founder of the Kalakshetra Dance School?

Ans
1. Sonal Mansingh
2. Saroja Vaidyanathan
3. Rukmini Devi Arundale
4. Mallika Sarabhai

Question ID : **26433055426**
Status : **Answered**
Chosen Option : **4**

Q.15 M S Subbulakshmi, a legend in India is known for which of the following?

Ans
1. Ghazal music
2. Sufi devotional music
3. Hindustani music
4. Carnatic music

Question ID : **264330120899**
Status : **Not Answered**
Chosen Option : **--**

Q.16 **Which of the following is a negative effect of Green Revolution in India?**
(i) Depletion of groundwater table
(ii) Deterioration in the quality of soil
(iii) Increased input cost

Ans
✗ 1. (ii) and (iii)
✗ 2. (i) and (ii)
✓ 3. (i), (ii) and (iii)
✗ 4. Only (iii)

Question ID : **26433054808**
Status : **Not Answered**
Chosen Option : **--**

Q.17 **Under the Rail Kaushal Vikas Yojana launched in September 2021, the Government of India has proposed to impart training to a total of 50,000 candidates over a _____-year period.**

Ans
✗ 1. four
✗ 2. two
✗ 3. five
✓ 4. three

Question ID : **26433072873**
Status : **Not Answered**
Chosen Option : **--**

Q.18 **Select the option that is true regarding the following two statements labelled Assertion (A) and Reason (R).**
(A): An object slips less on a rough surface than a smooth surface.
(R): When a surface is rough, frictional force increases.

Ans
✗ 1. Assertion (A) is true and Reason (R) is false.
✗ 2. Both Assertion (A) and Reason (R) are the true but Reason (R) is not a correct explanation of Assertion (A).
✗ 3. Assertion (A) is false and Reason (R) is true.
✓ 4. Both Assertion (A) and Reason (R) are the true and Reason (R) is a correct explanation of Assertion (A).

Question ID : **264330131767**
Status : **Answered**
Chosen Option : **4**

Q.19 **On 1 February 2021,Finance Minister Nirmala Sitharaman informed that _____and _____will be merged under the umbrella of Mission POSHAN 2.0.**

Ans
✗ 1. Supplementary Health Programme; National health Mission
✗ 2. Supplementary Nutrition Programme; National Health Mission
✓ 3. Supplementary Nutrition Programme; National Nutrition Mission
✗ 4. Supplementary Health Programme; National Nutrition Mission

Question ID : **26433081868**
Status : **Not Answered**
Chosen Option : **--**

Q.20 **Who among the following was appointed as the chairperson of the 22nd Law Commission in 2022?**

Ans
- ✗ 1. Justice UU Lalit
- ✗ 2. Justice VV Raman
- ✗ 3. Justice KT Shankaran
- ✓ 4. Justice Rituraj Awasthi

Question ID : **264330132969**
Status : **Not Answered**
Chosen Option : **--**

Q.21 **Assume a situation where A has gone to a cinema hall with her friends to watch a movie. In the next seat she realises that it is her maid who is also watching the movie. Now A asks her maid to leave the cinema hall.**
In the above scenario, which of the following Article of the Constitution of India can provide relief to the maid?

Ans
- ✗ 1. Article 16
- ✓ 2. Article 15
- ✗ 3. Article 18
- ✗ 4. Article 17

Question ID : **264330110571**
Status : **Answered**
Chosen Option : **4**

Q.22 **Who among the following was the first Chief Election Commissioner of India?**

Ans
- ✗ 1. Dr. Nagendra Singh
- ✗ 2. SP Sen Verma
- ✓ 3. Sukumar Sen
- ✗ 4. KVK Sundaram

Question ID : **264330133073**
Status : **Not Answered**
Chosen Option : **--**

Q.23 **Which festival traces its origin to the Tibetan New Year and in Ladakh, it is celebrated every year at the end of the harvesting season?**

Ans
- ✓ 1. Losar festival
- ✗ 2. Matho Nagrang
- ✗ 3. Yuru Kabgyat
- ✗ 4. Dosmoche

Question ID : **264330111140**
Status : **Not Answered**
Chosen Option : **--**

Q.24 **Sabha and Ur, two kinds of village assemblies are referred to in which of the following dynasties?**

Ans
- ✔ 1. Chola
- ✘ 2. Rashtrakuta
- ✘ 3. Gurjara Pratihara
- ✘ 4. Chalukya

Question ID : **264330114824**
Status : **Not Answered**
Chosen Option : **--**

Q.25 **Who among the following was defeated by Mauryan emperor Chandragupta Maurya?**

Ans
- ✘ 1. Cassander
- ✔ 2. Seleucus Nicator
- ✘ 3. Antigones
- ✘ 4. Ptolemy

Question ID : **264330113557**
Status : **Answered**
Chosen Option : **2**

Section : **Quantitative Aptitude**

Q.1 **A shopkeeper sold a pair of headphones for ₹5,520 at a gain of 20%. What would have been the gain or loss percent if it had been sold for ₹4,370?**

Ans
- ✘ 1. Gain 15%
- ✔ 2. Loss 5%
- ✘ 3. Gain 2%
- ✘ 4. Loss 10%

Question ID : **26433082679**
Status : **Answered**
Chosen Option : **2**

Q.2 **In a certain year, the population of a city was 18000. If in the next year, the population of males increased by 5% and that of females increased by 7%, and the total population increased to 19200, then what was the ratio of the populations of males and females in that given year?**

Ans
- ✘ 1. 2 : 5
- ✔ 2. 1 : 5
- ✘ 3. 4 : 3
- ✘ 4. 3 : 5

Question ID : **26433099031**
Status : **Answered**
Chosen Option : **2**

Q.3 **An inlet pipe can fill an empty tank in 120 hours while an outlet pipe drains a completely-filled tank in 54 hours. If 8 inlet pipes and 3 outlet pipes are opened simultaneously, when the tank is empty, then in how many hours will the tank get completely filled?**

Ans
✗ 1. 81
✗ 2. 96
✗ 3. 72
✓ 4. 90

Question ID : **264330131193**
Status : **Not Answered**
Chosen Option : **--**

Q.4 If $\sin x = \frac{3}{10}$, then what is the value of $\tan x + \cot x = ?$

Ans
✓ 1. $\frac{100}{3\sqrt{91}}$
✗ 2. $\frac{100}{2\sqrt{83}}$
✗ 3. $\frac{100}{7\sqrt{95}}$
✗ 4. $\frac{100}{3\sqrt{85}}$

Question ID : **26433061098**
Status : **Answered**
Chosen Option : **1**

Q.5 **The marked price of a frock is ₹4,500. It is to be sold at ₹2,400 at two successive discounts. If the first discount is 20%, then the second discount will be:**

Ans
✗ 1. 40%
✗ 2. 30%
✗ 3. $66\frac{1}{3}\%$
✓ 4. $33\frac{1}{3}\%$

Question ID : **264330103405**
Status : **Answered**
Chosen Option : **4**

Q.6 **Which of the following numbers is divisible by 11?**

Ans
✓ 1. 97174
✗ 2. 56923
✗ 3. 63962
✗ 4. 17295

Question ID : **264330131113**
Status : **Answered**
Chosen Option : **1**

Q.7 **Two trains of length 130 m and 120 m are running on parallel lines in the same direction at a speed of 40 km/h and 50 km/h, respectively. In how much time will they pass each other?**

Ans
✗ 1. 85 sec
✗ 2. 62 sec
✗ 3. 63 sec
✓ 4. 90 sec

Question ID : **26433092169**
Status : **Answered**
Chosen Option : **4**

Q.8 **The square of the sum of two given natural numbers is 784, while the product of the two given numbers is 192. Find the positive difference between the squares of these two given numbers.**

Ans
✗ 1. 512
✗ 2. 122
✗ 3. 400
✓ 4. 112

Question ID : **264330101347**
Status : **Answered**
Chosen Option : **3**

Q.9 Solve the given expression.

$$\frac{\sec^2(90^\circ - \theta) - \cot^2\theta}{2(\sin^2 35^\circ + \sin^2 55^\circ)}$$

Ans
✓ 1. 0.5
✗ 2. 2
✗ 3. 1.5
✗ 4. 1

Question ID : **264330126614**
Status : **Answered**
Chosen Option : **1**

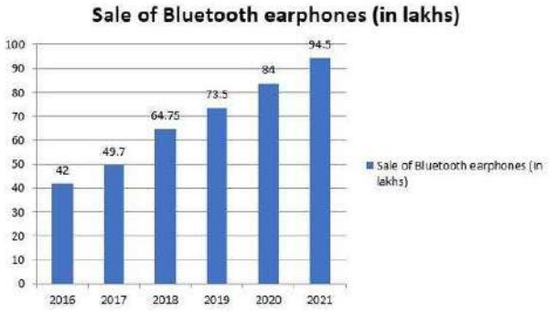
Q.10 **What is the sum of the divisors of 484 that are perfect squares?**

Ans
✗ 1. 125
✗ 2. 35
✓ 3. 610
✗ 4. 13

Question ID : **264330130294**
Status : **Not Answered**
Chosen Option : **--**

Q.11 Study the bar graph carefully and answer the question that follows.

The following bar graph shows the sale of Bluetooth earphones on online market places over the years.



Find the approx. percentage increase in the sale of earphones from 2017 to 2020.

Ans

✔ 1. 69%

✘ 2. 57%

✘ 3. 78%

✘ 4. 71%

Question ID : **26433076242**
Status : **Answered**
Chosen Option : **1**

Q.12 **C1 and C2 are two concentric circles such that the radius of C2 is less than the radius of C1. If AB is the chord of C1 of length 12 cm, touching C2 at P, find the length of AP.**

Ans

✘ 1. 9 cm

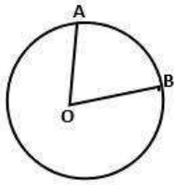
✘ 2. 10.5 cm

✘ 3. 8 cm

✔ 4. 6 cm

Question ID : **264330143609**
Status : **Answered**
Chosen Option : **4**

Q.13 In the given figure, the length of arc AB is equal to 3 times radius r of the circle.



Find the area of sector OAB in terms of radius r.

Ans
✔ 1. 1.5 r^2
✘ 2. 2.5 r^2
✘ 3. $\frac{1}{2}r^2$
✘ 4. 3 r^2

Question ID : **26433066423**
Status : **Answered**
Chosen Option : **1**

Q.14 **The average age of a group of friends is 27 years. If 4 new friends whose average age is 25 years join them, the average age of the entire group becomes 26 years. How many people were there in the group initially?**

Ans
✘ 1. 3
✔ 2. 4
✘ 3. 5
✘ 4. 6

Question ID : **264330103607**
Status : **Answered**
Chosen Option : **2**

Q.15 Simplify the expression $\frac{l^2 - m^2}{(l+m)^2}$, provided $(l + m) \neq 0$.

Ans
✘ 1. $\frac{l+m}{l-m}$
✔ 2. $\frac{l-m}{l+m}$
✘ 3. 0
✘ 4. 1

Question ID : **264330123999**
Status : **Answered**
Chosen Option : **2**

Q.16 cosec 2910°+ sec 4260° + tan 2565° + cot 1755° = ?

Ans
✗ 1. 3
✗ 2. 1
✓ 3. 4
✗ 4. 0

Question ID : **26433075426**
Status : **Not Answered**
Chosen Option : **--**

Q.17 If $(a^3 + b^3 + c^3 - 3abc) = 405$, and $(a + b + c) = 15$, find the value of $(a - b)^2 + (b - c)^2 + (c - a)^2$.

Ans
✗ 1. 27
✓ 2. 54
✗ 3. 18
✗ 4. 45

Question ID : **264330101357**
Status : **Answered**
Chosen Option : **2**

Q.18 Radhika owns 2 dogs, 3 rabbits and 4 parrots as pets. What is the ratio of the number of rabbits to the total number of pets Radhika owns?

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

Question ID : **264330103618**
Status : **Answered**
Chosen Option : **2**

Q.19 PT is a tangent to a circle whose centre is O, and where T is a point on the circle. If PT = 12 cm and PO = 13 cm, then find the radius of the circle.

Ans
✗ 1. 4 cm
✗ 2. 6 cm
✗ 3. 4.5 cm
✓ 4. 5 cm

Question ID : **264330143571**
Status : **Answered**
Chosen Option : **4**

Q.20 A and B can individually complete a piece of work in 18 days and 30 days, respectively. A and B started working together, but A left $16\frac{2}{3}$ days before the work is completed and B alone completed the rest of the work. For how many days did A work?

Ans

✗ 1. 4

✓ 2. 5

✗ 3. 6

✗ 4. 3

Question ID : **264330101324**
Status : **Not Answered**
Chosen Option : **--**

Q.21 **A boat can go 60 km downstream and 40 km upstream in 12 hours 30 minutes. It can go 84 km downstream and 63 km upstream in 18 hours 54 minutes. What is the speed (in km/h, to the nearest integer) of the boat in still water?**

Ans

✗ 1. 7

✗ 2. 8

✓ 3. 9

✗ 4. 10

Question ID : **264330103564**
Status : **Not Answered**
Chosen Option : **--**

Q.22 Study the given table and answer the question that follows.

The table shows the number of candidates who appeared (App), qualified (Qual) and were selected (Sel) in a competitive examination from four states Delhi, Goa, Karnataka, and Maharashtra over the years 2012 to 2016.

Years	Delhi			Goa			Karnataka			Maharashtra		
	App	Qual	Sel	App	Qual	Sel	App	Qual	Sel	App	Qual	Sel
2012	8000	850	94	7800	810	82	7500	720	78	8200	680	85
2013	4800	500	48	7500	800	65	5600	620	85	6800	600	70
2014	9500	850	90	8800	920	86	7000	650	70	7800	720	84
2015	9000	800	70	7200	850	75	8500	950	80	5700	485	60
2016	7500	640	82	7400	560	70	4800	400	48	6500	525	65

The percentage of candidates that qualified from Goa over those that appeared from Goa is highest in the year _____.

Ans

✗ 1. 2013

✗ 2. 2014

✗ 3. 2012

✓ 4. 2015

Question ID : **264330126599**
Status : **Answered**
Chosen Option : **1**

Q.23 A sum of money becomes $\frac{8}{7}$ of itself in 2 years at a certain rate of simple interest. The rate per annum is:

Ans
✗ 1. $6\frac{3}{7}\%$
✗ 2. $8\frac{1}{7}\%$
✓ 3. $7\frac{1}{7}\%$
✗ 4. $7\frac{3}{7}\%$

Question ID : **264330104520**
Status : **Answered**
Chosen Option : **3**

Q.24 Three cubes with sides in the ratio of 3 : 4 : 5 are melted to form a single cube whose diagonal is $18\sqrt{3}$ cm. The sides of the three cubes are:

Ans
✗ 1. 21 cm, 28 cm and 35 cm
✓ 2. 9 cm, 12 cm and 15 cm
✗ 3. 18 cm, 24 cm and 30 cm
✗ 4. 12 cm, 16 cm and 20 cm

Question ID : **264330104548**
Status : **Answered**
Chosen Option : **2**

Q.25 **If one man or two women or three boys can finish a work in 121 days, then how many days will one man, one woman and one boy together take to finish the same work?**

Ans
✓ 1. 66
✗ 2. 44
✗ 3. 88
✗ 4. 55

Question ID : **264330104539**
Status : **Not Answered**
Chosen Option : **--**

Section : **English Comprehension**

Q.1 **Select the option that can be used as a one-word substitute for the given phrase.**

Gradual recovery of health and strength

Ans
✓ 1. Convalescence
✗ 2. Potency
✗ 3. Benefaction
✗ 4. Rejuvenation

Question ID : **26433073746**
Status : **Answered**
Chosen Option : **1**

Q.2 **Select the most appropriate ANTONYM of the word given in brackets to fill in the blank.**
The teacher could judge that his intentions were _____, (nefarious) so he was not stopped from entering the hall.

Ans
✔ 1. pious
✘ 2. traitorous
✘ 3. envious
✘ 4. perfidious

Question ID : **264330142388**
Status : **Answered**
Chosen Option : **4**

Q.3 **Select the INCORRECTLY spelt word.**

Ans
✘ 1. Arbitrary
✘ 2. Favourite
✔ 3. Aggreement
✘ 4. Conviction

Question ID : **264330117333**
Status : **Answered**
Chosen Option : **3**

Q.4 **Select the most appropriate meaning of the given idiom.**

On the ball

Ans
✘ 1. Doing a job in a slow and incorrect manner
✔ 2. Doing a job in a quick and competent manner
✘ 3. Playing with a ball
✘ 4. Exercising using a ball

Question ID : **26433090464**
Status : **Answered**
Chosen Option : **2**

Q.5 **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.**

My students / had expect / guidance from my end.

Ans
✔ 1. had expect
✘ 2. guidance from my end
✘ 3. My students
✘ 4. No error

Question ID : **26433073528**
Status : **Answered**
Chosen Option : **1**

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

Capable of being bent or pulled into different shapes

Ans
1. Lithe
2. Willowy
3. Ductile
4. Lissome

Question ID : **26433088443**
Status : **Answered**
Chosen Option : **3**

Q.7 **Select the option that expresses the given sentence in passive voice.**

He didn't eat a single morsel of food at his daughter's wedding.

Ans
1. A single morsel of food is not eaten by him at his daughter's wedding.
2. A single morsel of food was not eaten by him at his daughter's wedding.
3. A single morsel of food can not be eaten by him at his daughter's wedding.
4. A single morsel of food was not being eaten by him at his daughter's wedding.

Question ID : **264330141539**
Status : **Answered**
Chosen Option : **2**

Q.8 **Select the most appropriate ANTONYM of the underlined word.**
My teacher accepted my excuse for being late.

Ans
1. Trusted
2. Rejected
3. Agreed
4. Believed

Question ID : **264330121044**
Status : **Answered**
Chosen Option : **2**

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

A large cage, building, or enclosure to keep birds

Ans
1. Aviary
2. Burrow
3. Apiary
4. Dormitory

Question ID : **26433073684**
Status : **Answered**
Chosen Option : **1**

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

Disability was viewed as God's <u>retribution for wickedness</u> in the past.

Ans
1. revenge for legal works
2. punishment for wrongdoing
3. payback for doing help
4. fine for misbehaviour

Question ID : **26433098904**
Status : **Answered**
Chosen Option : **2**

Q.11 **Select the most appropriate idiom for the given situation.**
I was very excited about my new assignment. I sent the email without the required attachment. What have I done?

Ans
1. Shook a leg
2. As swift as an eagle
3. Jumped the gun
4. Tested the waters

Question ID : **264330100297**
Status : **Not Answered**
Chosen Option : **--**

Q.12 **Select the most appropriate homonym to fill in the blank.**
The villagers kept the _____ out, to collect the rain water.

Ans
1. crus
2. cruse
3. crews
4. cruise

Question ID : **264330142391**
Status : **Answered**
Chosen Option : **3**

Q.13 **Select the option that expresses the given sentence in passive voice.**
The workers had eaten all the pastries before the day broke.

Ans
1. All the pastries were being eaten by the workers before the day broke.
2. All the pastries had been eaten by the workers before the day broke.
3. All the pastries have been eaten by the workers before the day broke.
4. All the pastries are being eaten by the workers before the day broke.

Question ID : **264330121855**
Status : **Answered**
Chosen Option : **2**

Q.14 **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.Both, Ratan and Moti were idlers and did not work.
B.Their wives had introduced order and industry in the house.
C.Ratan and Moti's wives would work hard and would earn the bread for their family.
D.This made them lazier.

Ans
✗ 1. CDAB
✗ 2. ABDC
✗ 3. BADC
✓ 4. ACBD

Question ID : **26433092405**
Status : **Answered**
Chosen Option : **4**

Q.15 **Select the most appropriate synonym of the underlined word.**
The investment scheme had been a <u>scam</u> all along.

Ans
✗ 1. Plain
✓ 2. Swindle
✗ 3. Failure
✗ 4. Successful

Question ID : **264330117250**
Status : **Answered**
Chosen Option : **3**

Q.16 **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. The first is the herbalist, who generally enjoys the prestige and reputation of being the real traditional medical professional.
B. Over the years, I have come to distinguish three types of medical practitioners in African societies and to classify the extent to which each uses medicinal plants.
C. Thirdly, the witch doctor, the practitioner who is credited with the ability to intercept the evil deeds of a witch.
D. The second group represents the divine healers.

Ans
✗ 1. BDAC
✓ 2. BADC
✗ 3. CBAD
✗ 4. ACDB

Question ID : **26433096962**
Status : **Answered**
Chosen Option : **2**

Q.17 **Identify the sentence with correct spellings.**

Ans
✗ 1. Rahul was ashamed of biheving so badly.
✗ 2. Rahul was ashamed of bihaving so badly.
✗ 3. Rahul was ashamed of beehaving so badly.
✓ 4. Rahul was ashamed of behaving so badly.

Question ID : **26433089044**
Status : **Answered**
Chosen Option : **4**

Q.18 **The following sentence has been split into four segments. Identify the segment that contains a grammatical error.**

One of these / boxes have / the portrait / of the heiress.

Ans
1. boxes have
2. of the heiress
3. the portrait
4. One of these

Question ID : **264330108876**
Status : **Answered**
Chosen Option : **1**

Q.19 **Select the most appropriate synonym of the underlined word.**
The hunter drew his bow, but only managed to sever the paw of the wolf before the wolf ran off.

Ans
1. join
2. mix
3. ramify
4. bind

Question ID : **26433099631**
Status : **Answered**
Chosen Option : **4**

Q.20 **Select the most appropriate ANTONYM of the underlined word in the following sentence.**

The old port was abandoned a long ago.

Ans
1. Quit
2. Shortened
3. Kept
4. Rashed

Question ID : **26433094762**
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.
The world is going through a deep recession. At such a time, one thing we need in abundance is jobs for the semi-skilled and unskilled. This is the only way in which equal (1)____ of wealth can take place. The healthcare industry is ideally poised to occupy this position. The IT industry hires people from the upper-middle strata and rich families, usually engineers, (2)____ the health care industry hires nurses, to the tune of eighty per cent of the jobs created, from the lower economic strata. Global health care is a 4.5-trillion rupee industry, second only to the agro industry. Even then, health care (3)____ only eight per cent of the world's population. Policymakers should look at the health care industry as not only an industry which addresses pain but also as one which can (4)____ the economy. The last century was driven by machines that addressed human toil and it is strongly believed that this century will be driven by health care. This, however, will only happen if policy makers make a conscious effort to (5)____ the right policies in place soon.

SubQuestion No : 21

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

Ans
✗ 1. spending
✓ 2. distribution
✗ 3. partition
✗ 4. earning

Question ID : **264330139823**
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.
The world is going through a deep recession. At such a time, one thing we need in abundance is jobs for the semi-skilled and unskilled. This is the only way in which equal (1)____ of wealth can take place. The healthcare industry is ideally poised to occupy this position. The IT industry hires people from the upper-middle strata and rich families, usually engineers, (2)____ the health care industry hires nurses, to the tune of eighty per cent of the jobs created, from the lower economic strata. Global health care is a 4.5-trillion rupee industry, second only to the agro industry. Even then, health care (3)____ only eight per cent of the world's population. Policymakers should look at the health care industry as not only an industry which addresses pain but also as one which can (4)____ the economy. The last century was driven by machines that addressed human toil and it is strongly believed that this century will be driven by health care. This, however, will only happen if policy makers make a conscious effort to (5)____ the right policies in place soon.

SubQuestion No : 22

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

Ans
✓ 1. whereas
✗ 2. unless
✗ 3. unlike
✗ 4. despite

Question ID : **264330139824**
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.
The world is going through a deep recession. At such a time, one thing we need in abundance is jobs for the semi-skilled and unskilled. This is the only way in which equal (1)____ of wealth can take place. The healthcare industry is ideally poised to occupy this position. The IT industry hires people from the upper-middle strata and rich families, usually engineers, (2)____ the health care industry hires nurses, to the tune of eighty per cent of the jobs created, from the lower economic strata. Global health care is a 4.5-trillion rupee industry, second only to the agro industry. Even then, health care (3)____ only eight per cent of the world's population. Policymakers should look at the health care industry as not only an industry which addresses pain but also as one which can (4)____ the economy. The last century was driven by machines that addressed human toil and it is strongly believed that this century will be driven by health care. This, however, will only happen if policy makers make a conscious effort to (5)____ the right policies in place soon.

SubQuestion No : 23

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

Ans

✗ 1. cures

✗ 2. visits

✓ 3. reaches

✗ 4. calls

Question ID : **264330139825**
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.
The world is going through a deep recession. At such a time, one thing we need in abundance is jobs for the semi-skilled and unskilled. This is the only way in which equal (1)____ of wealth can take place. The healthcare industry is ideally poised to occupy this position. The IT industry hires people from the upper-middle strata and rich families, usually engineers, (2)____ the health care industry hires nurses, to the tune of eighty per cent of the jobs created, from the lower economic strata. Global health care is a 4.5-trillion rupee industry, second only to the agro industry. Even then, health care (3)____ only eight per cent of the world's population. Policymakers should look at the health care industry as not only an industry which addresses pain but also as one which can (4)____ the economy. The last century was driven by machines that addressed human toil and it is strongly believed that this century will be driven by health care. This, however, will only happen if policy makers make a conscious effort to (5)____ the right policies in place soon.

SubQuestion No : 24

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

Ans

✗ 1. impede

✗ 2. persuade

✓ 3. influence

✗ 4. ascertain

Question ID : **264330139826**
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.
The world is going through a deep recession. At such a time, one thing we need in abundance is jobs for the semi-skilled and unskilled. This is the only way in which equal (1)____ of wealth can take place. The healthcare industry is ideally poised to occupy this position. The IT industry hires people from the upper-middle strata and rich families, usually engineers, (2)____ the health care industry hires nurses, to the tune of eighty per cent of the jobs created, from the lower economic strata. Global health care is a 4.5-trillion rupee industry, second only to the agro industry. Even then, health care (3)____ only eight per cent of the world's population. Policymakers should look at the health care industry as not only an industry which addresses pain but also as one which can (4)____ the economy. The last century was driven by machines that addressed human toil and it is strongly believed that this century will be driven by health care. This, however, will only happen if policy makers make a conscious effort to (5)____ the right policies in place soon.

SubQuestion No : 25

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

Ans

✗ 1. desire

✗ 2. cut

✗ 3. design

✓ 4. put

Question ID : **264330139827**
Status : **Answered**
Chosen Option : **3**