Combined Graduate level Examinat	ion 2023 Tier I
25/07/2023	
9:00 AM - 10:00 AM	
Combined Graduate Level Examination Tier I 2023	
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	25/07/2023 9:00 AM - 10:00 AM

Section	n : <b>Gen</b> e	eral Intell	igence	and I	Reaso	oning															
Q.1	Select series.	the figu	re tha	nt will	repl	ace t	he qu	estic	n m	ark ('	?) in	the fo	ollowin	ng fi	igure						
	F X	O T 🗆		В	X F	☆ F	х	0	0	2	F		2								
	☆	U	U		☆	В		U	U		В		•								
Ans		В		0	a a																
	<b>v</b> 1.	☆	F																		
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	<b>X</b> 2.	☆	2																		
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	<b>X</b> 3.	☆		2																	
		В		F																	
		0		2																	
	<b>X</b> 4.	☆	В																		
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														С		estion I Statu n Optio	us : N	lot Ar			

### Q.2 Which two signs and two numbers should be interchanged to make the following equation correct? 784 ÷ 6 × 9 - 30 + 14 = 528

1. 14 and 6, + and – Ans

X 2. 784 and 30, + and ×

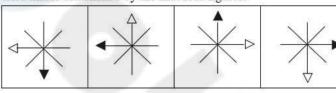
X 3. 784 and 6, × and –

X 4. 9 and 6, ÷ and +

Question ID: 264330122146 Status : Answered

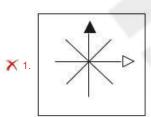
Chosen Option : 1

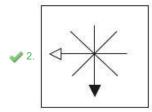
# Which of the given figures when placed in the 5<sup>th</sup> position would continue the series that is established by the first four figures?

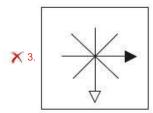


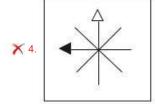
2

Ans

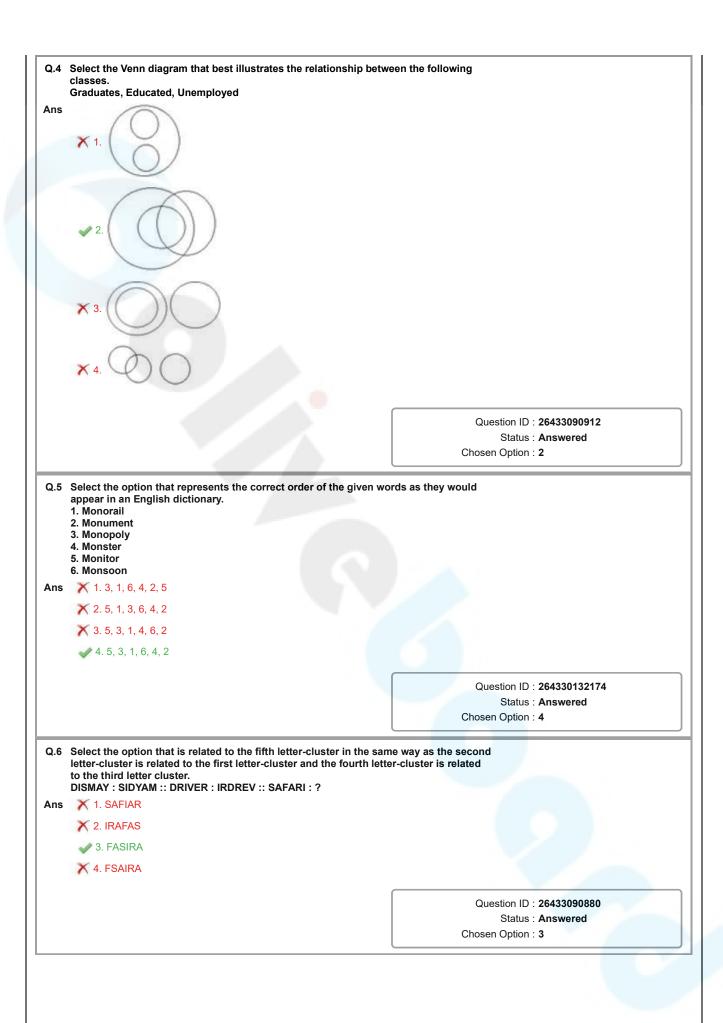








Question ID : 26433087312 Status : Answered Chosen Option : 2



Q.7 Looking at the family picture, Rajan said, "She is my wife's son's father's mother's husband's daughter.' How is the girl in the photo related to Rajan?

Ans

1. Sister

X 2. Mother-in-law

X 3. Wife's Sister

X 4. Daughter-in-law

Question ID : 264330122393
Status : Answered
Chosen Option : 1

Q.8 Select the correct mirror image of the given figure when the mirror is placed at PQ as shown below.



Ans

X 1 Z V B C W P

Z V A C M P SX

Z V B C W b EX

ZVBCWP.4~

Question ID : 26433080767 Status : Answered

Chosen Option : 4

Q.9 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 pens are newspapers.
Some newspapers are novels.

No novel is a book.

#### Conclusions:

I. Some books are pens.

II. Some novels are pens.

III. No book is a pen.

Ans

1. Either conclusion I or III follows.

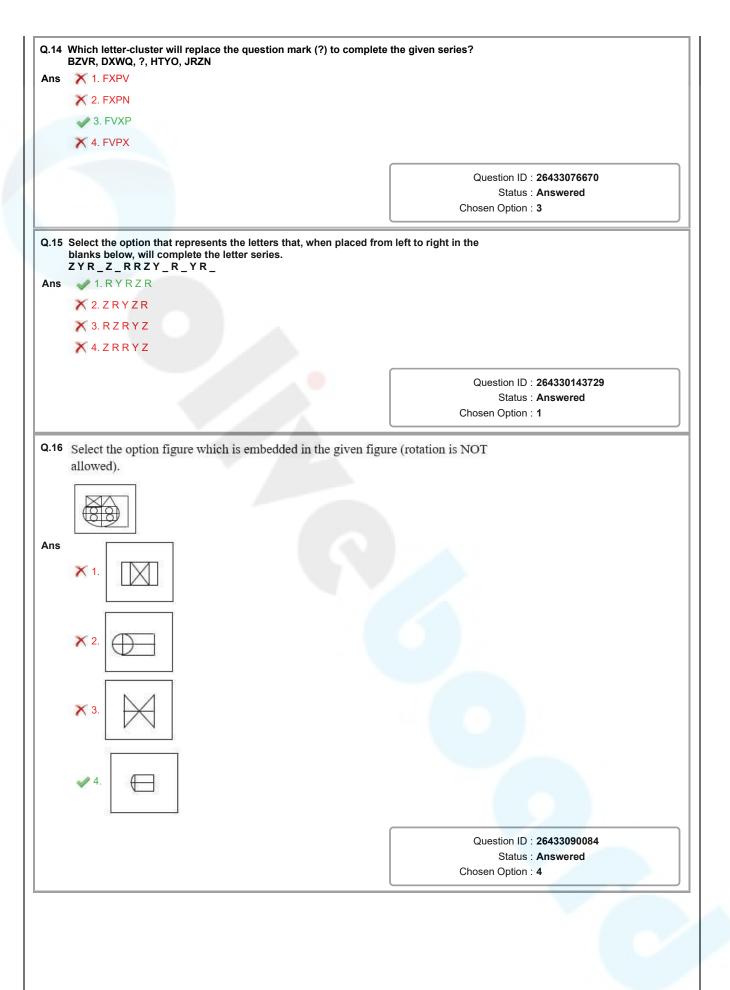
X 2. Both conclusions II and III follow.

X 3. Either conclusion II or III follows.

X 4. Both conclusions I and II follow.

Question ID : 26433093150 Status : Answered

Q.10 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) (9, 20, 31) (38, 49, 60) **Ans** X 1. (63, 60, 65) **X** 2. (15, 20, 31) **X** 3. (25, 69, 45) 4. (14, 24, 34) Question ID: 264330130204 Status: Answered Chosen Option: 4 Q.11 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.) (7, 150, 23) (11, 75, 4) **Ans** X 1. (4, 108, 16) **X** 2. (8, 90, 11) **X** 3. (9, 80, 11) **4**. (15, 140, 13) Question ID: 26433069230 Status: Answered Chosen Option: 4 Q.12 In a certain code language, 'RAT' is coded as '39' and 'MICE' is coded as '30'. How will 'ZEBRA' be coded in that language? Ans X 1.53 **2**. 52 X 3. 51 **X** 4. 50 Question ID: 264330129681 Status: Answered Chosen Option: 2 Q.13 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out. Ans X 1. ONL X 2. RQO X 3. HGE 4. DCB Question ID: 26433069010 Status: Answered Chosen Option: 4



Q.17 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. X 1. 128 : 8 Ans X 2. 288 : 12 **3**. 350 : 15 **X** 4. 18 : 3 Question ID: 264330143708 Status : Answered Chosen Option: 3 Q.18 Study the given pattern carefully and select the number that can replace the question mark (?) in it. First row: 16, 15, 35 Second row: 12, 18, 33 Third row: 8, 17, ? (NOTE: Operations should be performed on the whole numbers, without breaking down the number into its constituent digits. For example, 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 X 1. 31 **2**. 27 X 3. 25 **X** 4. 30 Question ID: 264330143713 Status: Not Answered Chosen Option : --Q.19 Select the correct mirror image of the given figure when the mirror is placed at the right side of the figure. Ans Question ID: 26433068186 Status: Answered Chosen Option : 1

Q.20 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. 1029 : 7 :: 2187 : 9 :: 24 : ? X 1.3 Ans **2**.2 **X** 3. 6 X 4.4 Question ID: 26433085826 Status : Answered Chosen Option : 2 Q.21 Each vowel in the word "FOREFOOT" is changed to the following letter in the English alphabetical series and each consonant is changed to the previous 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 2<sup>nd</sup> from the left and 1st from the right? Ans X 1. Three 🥒 2. Two X 3. One X 4. Four Question ID: 264330132075 Status: Answered Chosen Option : 2 Q.22 Which of the following numbers will replace the question mark (?) in the given series? 27, 38, ?, 68, 87, 110 Ans X 1.47 X 2.50 **3**. 51 **X** 4. 53 Question ID: 26433090927 Status: Answered Chosen Option: 3 Q.23 In a certain code language, 'CAKE' is written as '6874', 'EASY' is written as '4882'. How will 'MAKE' be written in that language? Ans X 1. 5875 **2**. 5874 X 3. 5884 X 4. 5774 Question ID: 26433091588 Status: Answered Chosen Option: 2

Q.24 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

Wj32kp

MIEZKb .t X and

Mj 8 2 Kp . 2 X

Wj32kp . ₺ 🍆

WjE2Kp 4X

Question ID: 26433056997 Status: Answered

Chosen Option : 4

Q.25 Which two signs should be interchanged to make the given equation correct?

 $3 \times 12 - 6 \div 2 + 12 = 16$ 

Ans X 1. ÷ and +

X 2. × and ÷

X 4. - and +

Question ID: 264330120858

Status : Answered

Chosen Option : 3

Section: General Awareness

Q.1 As per the Census data, What was the density of population in India in 2011?

Ans X 1. 822 persons/sq km

2. 382 persons/sq km

X 3. 328 persons/sq km

X 4. 282 persons/sq km

Question ID: 264330144079

Status : Answered

Chosen Option: 3

Q.2 Who among the following was the Maharana of Mewar and composed a book on music called 'Sangeet Raj'?

Ans X 1. Maharana Sanga

X 2. Maharana Pratap

3. Maharana Kumbha

X 4. Maharana Udai Singh

Question ID : 26433074128

Status: Answered

Q.3 How many silver medals was won by India in Tokyo Paralympic 2020? Ans X 1. 7 **X** 2. 6 **3**.8 **X** 4. 5 Question ID: 264330109679 Status: Answered Chosen Option : 2 Q.4 Match the columns. Column-A (Common name) Column-B (Group number in the Modern Periodic Table) i. Alkali metals a. 18 ii. Alkaline earth metals b. 17 iii. Halogens c. 2 iv. Noble gases d. 1 Ans X 1. i-a, ii-b, iii-c, iv-d X 2. i-a, ii-c, iii-b, iv-d X 3. i-b, ii-a, iii-c, iv-d Question ID: 264330110027 Status: Answered Chosen Option : 4 Q.5 Pectin, which is responsible for the firmness and softness of fruits, is mainly composed of which acid unit? Ans X 1. Aspartic acid 2. Galacturonic acid X 3. Lactic acid X 4. Glutamic acid Question ID: 264330110097 Status : Answered Chosen Option : 4 Q.6 Sporophyte stage is dominant in which plant group? Ans X 1. Bryophytes 2. Vascular plants X 3. Algae X 4. Pteridophytes Question ID: 26433071438 Status: Not Answered Chosen Option: --Q.7 The country can improve its balance of payments by devaluation when the sum of elasticity of demand for exports and imports is \_ Ans X 1. less than unity X 2. equal to unity 3. greater than unity X 4. zero Question ID: 264330109993 Status : Answered Chosen Option : 1

Q.8 became India's fi high of Rs.7,600 crores as of	rst sports unicorn with its market ca	ap having touched a
Ans X 1. Delhi Capitals	,	
X 2. Kolkata Knight Riders		
X 3. Mumbai Indians		
4. Chennai Super Kings		
		Question ID : 26433054452 Status : Answered
		Chosen Option : 4
Q.9 Which of the following comm in the Micro Finance Institution	ittees was constituted to study the i	issues and concerns
Ans X 1. Ghosh Committee	,,, <u>-</u>	
X 2. Sivaraman Committee		
X 4. Khan Committee		
		Question ID : 264330109360
		Status : <b>Answered</b> Chosen Option : <b>2</b>
0.10 India borrowed the DPSP from	m the Constitution.	
Ans X 1. Australian		
2. Irish		
X 3. German		
X 4. Austrian		
		Question ID : 264330110797
		Status : Answered
		Chosen Option : 2
) 11 Tamladu is a festival celebra:	ed by the Buddhist community of w	hich Indian state?
Ans X 1. Karnataka	ou by the Budumet community of the	indian state.
2. Arunachal Pradesh		
X 3. Madhya Pradesh		
X 4. Himachal Pradesh		
		Question ID : 264330109620
		Status : <b>Answered</b> Chosen Option : <b>4</b>
0.12 Iron mines in Jharkhand attri ancient India?	buted to the rise of which of the foll	owing kingdoms in
Ans X 1. Kuru		
<ul><li>2. Magadha</li></ul>		
X 3. Kashi		
× 4. Kushan		
		Question ID : 264330118946
		Status : Answered
		Chosen Option: 2

## Q.13 Which of the following statements is INCORRECT about granite? Ans X 1. Granite is the most abundant rock in the continental crust. 2. It is the most common sedimentary rock. X 3. These are igneous rocks that form when hot, molten rock crystallises and solidifies. X 4. Granite is composed mainly of quartz and feldspar with minor amounts of mica. Question ID: 264330109950 Status: Answered Chosen Option : 2 Q.14 'Luddi' is a folk dance of which of the following states of India? Ans X 1. Manipur 2. Punjab X 3. Madhya Pradesh X 4. Kerala Question ID: 26433094872 Status: Answered Chosen Option: 2 Q.15 Commonwealth Games 2022 was held in Ans 🗼 1. Birmingham X 2. Beijing X 3. Tokyo X 4. New Delhi Question ID: 264330110345 Status : Answered Chosen Option : 1 Q.16 'Back to Vedas' was the slogan of which Reform Movement? Ans X 1. Dev Samaj X 2. Brahmo Samaj X 3. Prarthana Samaj 🥓 4. Arya Samaj Question ID: 264330109056 Status : Answered Chosen Option: 4 Q.17 Which among the following statements about judicial review in India are correct? A. Judicial review means that the courts of law have the power of testing the validity of legislative as well as other governmental action with reference to the provisions of the Constitution. B. Under Article 23 of the Indian Constitution, the compulsion of judicial review was described in the Fundamental Rights in Part III. C. The power of judicial review is significantly vested upon the High Courts and the Supreme Court of India. Ans X 1. A and B only X 2. B and C only 3. A and C only X 4. A, B and C Question ID: 264330114786 Status: Not Answered Chosen Option: --

.18	The Ministry of Education (MoE) in February 2022 appro- the next five years to cover all the aspects of adult educ National Education Policy (NEP).	
Ans	X 1. Open Education Programme	
	× 2. ASHA	
	★ 3. New India Education Plan	
	4. New India Literacy Programme	
		Question ID : 26433081867
		Status : <b>Answered</b> Chosen Option : <b>2</b>
<b>Q.19</b>	According to India State of Forest Report 2019, what is	the total forest cover in India?
Ans	1. 20.87%	
	<b>2</b> . 21.67%	
	<b>X</b> 3. 24.67%	
	<b>X</b> 4. 23.67%	
		Question ID : 264330116475 Status : Answered
		Chosen Option : 2
Q.20	'Ras-Lila' recognised as one of the classical dance form the following states?	ns of India belongs to which of
Ans	1. Assam	
	X 2. Meghalaya	
	X 3. Tripura	
	✓ 4. Manipur	
		Question ID : 26433064792
		Status : Answered
		Chosen Option : 1
Q.21	The Viceroy who took keen interest in the restoration ar	nd protection of historical
<b></b> .	monuments was	is protostion of motorical
Ans	1. Lord Ellenborough	
	X 2. Lord Auckland	
	X 3. Lord Lytton	
	✓ 4. Lord Curzon	
		Question ID : 264330132680 Status : Answered
		Chosen Option : 1
Q.22	The Amara-Nayakas were in Vijayanagara Em	pire.
Ans	X 1. forced labourers	
	X 2. finance officers	
	X 3. ordinary peasants	
	✓ 4. military commanders	
	1000	
		Question ID : 264330111383
		Question ID : 264330111383 Status : Answered Chosen Option : 2

Q.23 What is the colour of the flame when unsaturated hydrocarbons burn? Ans X 1. Blue X 2. Red X 3. Green 4. Yellow Question ID: 264330134863 Status : Answered Chosen Option: 4 Q.24 The 'Jal Kranti Abhiyan' was launched by which government during the financial year 2015-2016? Ans X 1. Government of Punjab X 2. Government of Haryana 3. Government of India X 4. Government of Uttar Pradesh Question ID: 264330116455 Status: Not Answered Chosen Option : --Q.25 Who among the following Supreme Court judges was in news in 2022 for recusing himself from hearing a plea against the ED chief's tenure extension? Ans X 1. Justice KM Joseph X 2. Justice Ajay Rastogi 3. Justice SK Kaul X 4. Justice Mukesh Shah Question ID: 264330132971 Status: Answered Chosen Option: 3 Section: Quantitative Aptitude Q.1 The simple interest on a certain sum at the rate of 12.5% per annum for 6 years is ₹13,500 less than the principal. Find the simple interest. **X** 1. ₹13,500 **X** 2. ₹54,000 **X** 3. ₹40,000 4. ₹40,500 Question ID: 264330111477 Status: Answered Chosen Option: 4

Using  $\csc(\alpha + \beta) = \frac{\sec \alpha \times \sec \beta \times \csc \alpha \times \csc \beta}{\sec \alpha \times \csc \beta + \csc \alpha \times \sec \beta}$ , find the value of  $\csc 75^{\circ}$ .

- $\times$  1.  $\frac{\sqrt{6} + \sqrt{2}}{4}$

- $\times$  4.  $\sqrt{6} + \sqrt{2}$

Question ID: 264330143529 Status : Answered Chosen Option: 3

Q.3 Ram has an average score of 65 runs in 19 innings in cricket matches. Find out how many runs are to be scored by him in the 20<sup>th</sup> innings to raise the average score to 67.

- Ans X 1. 135
  - **2**. 105
  - X 3. 115
  - X 4. 195

Question ID: 264330130068 Status: Answered Chosen Option: 2

Q.4 A metallic cube has each of its side of length 12 cm. It is melted and recast into three small cubes. Out of these cubes, two have their sides as 6 cm and 8 cm, respectively. The length of each side of the third cube is:

- Ans X 1.7 cm
  - X 2.9 cm
  - √ 3. 10 cm

Question ID: 26433075486 Status : Answered Chosen Option: 3

 ${\bf Q.5}~{\bf A}$  policeman starts chasing a thief when he was already 600 m ahead. If the policeman is running at a speed of 9 km/h and the thief at 8 km/h, then the thief would be caught at a distance of:

- Ans X 1. 6.5 km
  - X 2.6 km
  - X 3.5 km

Question ID: 26433099012 Status: Answered

Q.6 A shopkeeper bought certain number of apples for Rs.3,600. He sold one-fifth of them at a loss of 10%, one-fourth of the remaining apples at a loss of 5%, and two-third of the rest at a profit of 15%. At what price (in Rs.) should he sell the remaining apples to earn a profit of 27% overall?

X 1. 1,548 Ans

**2.** 1,584

**X** 3. 1,845

X 4. 1,864

Question ID: 26433081068 Status: Not Answered

Chosen Option: --

Q.7 4 men and 6 women can complete a work in 8 days, while 3 men and 7 women can complete it in 10 days. In how many days will 25 women complete it?

Ans X 1. 20

**2**. 16

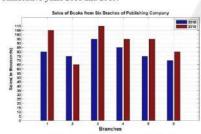
X 3. 25

X 4. 18

Question ID: 264330126594 Status : Answered

Chosen Option : 2

Q.8 The following bar graph shows the sales of books (in thousands) from six branches of a publishing company during two consecutive years 2018 and 2019.



Total sales of 6th branch for both the years is what percentage of the total sales of 3td branch for both the years? ( rounded off to two decimal places)

Ans 💓 1. 73.17%

× 2. 65.29%

× 3. 68.25%

× 4. 62.23%

Question ID: 26433082420 Status: Answered

Chosen Option: 1

Q.9 Find the remainder when  $8^8 + 6$  is divided by 7.

Ans 🧼 1. 0

X 2. 2

**X** 3. 3

**X** 4. 1

Question ID: 264330129916

Status: Answered

Q.10 What value of 'y' will satisfy the following equation?

$$\frac{3y}{1 + \frac{1}{1 + \frac{y}{1 - y}}} = 2$$

× 1. 
$$\frac{2}{3}$$

$$\times$$
 2.  $\frac{5}{4}$ 

Question ID : 264330131492 Status : Answered

Chosen Option : 3

Q.11 In a division sum, the divisor is 13 times the quotient and 6 times the remainder. If the remainder is 39, then the dividend is:

Question ID: 264330145550

Status : Answered Chosen Option : 3

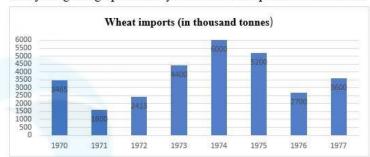
Q.12 If  $\tan \alpha = 6$ , then  $\sec \alpha$  equals to:

Ans

Question ID: 264330143601

Status : Answered

Study the given graph carefully and answer the question that follows.



The imports in 1977 were approximately how many times that of the year 1976?

- Ans X 1. 1.11
  - X 2. 1.22
  - **3**. 1.33
  - X 4. 1.44

Question ID : 264330122572 Status : Answered Chosen Option: 3

Q.14 In the following figure, there are two circles that touch each other externally. The radius of the first circle with centre P is 25 cm. The radius of the second circle with centre Q is 4 cm. Find the length of their direct common tangent AB.

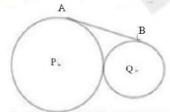


Figure is not to scale and is only for representational purpose

- Ans X 1. 21 cm
  - X 2. 18 cm

  - X 4. 22 cm

Question ID: 264330143518 Status : Answered Chosen Option: 3

Q.15 If  $(y - \frac{1}{y}) = 4$ , find the value of  $(y^6 + \frac{1}{y^6})$ . Ans X 1. 5774

**X** 2. 4096

X 3. 5776

**4**. 5778

Question ID: 264330114539

Status : Answered

	The following formula is used to calcu-	
	Angle of arc at centre $\times \pi \times \text{diamete}$	er
เทร	X 1. Length of a sector	
0	X 2. Area of an arc	
	X 3. Radius of a circle	
	4. Length of an arc	
	4. Length of all alc	
		Question ID : 26433075086
		Status : Answered
		Chosen Option : 4
Q.17	A thief seeing a policeman from a distance of 400 r km/h. The policeman chased him immediately with was caught. What is the distance run by the thief b policeman?	a speed of 18 km/h and the thief
Ans	✓ 1. 3200 m	
	× 2. 3230 m	
	<b>★</b> 3. 3240 m	
	<b>★</b> 4. 3220 m	
		Question ID : 264330143483
		Status : Answered
		Chosen Option : 1
Q.18	A group of men decided to do a job in 13 days but The work, as a result, got completed in 16 days. Ho group?	9 men left the work after each day. ow many men were initially in the
	The work, as a result, got completed in 16 days. Ho	9 men left the work after each day. ow many men were initially in the
	The work, as a result, got completed in 16 days. Ho group?  1. 378	9 men left the work after each day. ow many men were initially in the
	The work, as a result, got completed in 16 days. Ho group?  1. 378  2. 360	9 men left the work after each day. ow many men were initially in the
	The work, as a result, got completed in 16 days. Ho group?  1. 378 2. 360 3. 330	ow many men were initially in the
	The work, as a result, got completed in 16 days. Ho group?  1. 378 2. 360 3. 330	9 men left the work after each day. ow many men were initially in the  Question ID: 264330133626 Status: Not Answered
	The work, as a result, got completed in 16 days. Ho group?  1. 378 2. 360 3. 330	Question ID: 264330133626
Ans	The work, as a result, got completed in 16 days. Hogroup?  X 1. 378  2. 360  X 3. 330  X 4. 380  Applied to a bill for ₹50,000, the difference between successive discounts of 36% and 4%,is:	Question ID : 264330133626 Status : Not Answered Chosen Option :
Ans	The work, as a result, got completed in 16 days. Ho group?  X 1. 378  2. 360  X 3. 330  X 4. 380  Applied to a bill for ₹50,000, the difference between successive discounts of 36% and 4%,is:  X 1. ₹875	Question ID : 264330133626 Status : Not Answered Chosen Option :
Ans Q.19	The work, as a result, got completed in 16 days. Hogroup?  X 1. 378  2. 360  X 3. 330  X 4. 380  Applied to a bill for ₹50,000, the difference between successive discounts of 36% and 4%,is:  X 1. ₹875  X 2. ₹1,440	Question ID : 264330133626 Status : Not Answered Chosen Option :
Ans	The work, as a result, got completed in 16 days. Hogroup?  X 1. 378  2. 360  X 3. 330  X 4. 380  Applied to a bill for ₹50,000, the difference between successive discounts of 36% and 4%,is:  X 1. ₹875  X 2. ₹1,440  X 3. ₹1,250	Question ID : 264330133626 Status : Not Answered Chosen Option :
Ans	The work, as a result, got completed in 16 days. Hogroup?  X 1. 378  2. 360  X 3. 330  X 4. 380  Applied to a bill for ₹50,000, the difference between successive discounts of 36% and 4%,is:  X 1. ₹875  X 2. ₹1,440	Question ID : 264330133626 Status : Not Answered Chosen Option :
Ans	The work, as a result, got completed in 16 days. Hogroup?  X 1. 378  2. 360  X 3. 330  X 4. 380  Applied to a bill for ₹50,000, the difference between successive discounts of 36% and 4%,is:  X 1. ₹875  X 2. ₹1,440  X 3. ₹1,250	Question ID : 264330133626 Status : Not Answered Chosen Option :
Ans	The work, as a result, got completed in 16 days. Hogroup?  X 1. 378  2. 360  X 3. 330  X 4. 380  Applied to a bill for ₹50,000, the difference between successive discounts of 36% and 4%,is:  X 1. ₹875  X 2. ₹1,440  X 3. ₹1,250	Question ID: 264330133626 Status: Not Answered Chosen Option:

#### Q.20 Raju and Rajat working together take 5 days to complete a piece of work. If Raju alone can do this work in 7 days, how long would Rajat take to complete the same work?

Ans X 1. 18 days

X 2. 16.5 days

💢 3. 17 days

4. 17.5 days

Question ID: 264330118511 Status : Answered Chosen Option: 4

Q.21 Out of the total toffees,  $\frac{1}{10}$  are wasted. 35% of the rest are given to S and  $\frac{1}{8}$  of the total are given to N. If the toffees with N are 10 more than the wasted toffees, then how many toffees were given to S?

Ans

- **1.** 126
- X 2. 150
- **X** 3. 110
- X 4. 135

Question ID : 26433085439 Status: Answered Chosen Option: 1

Q.22 A field is 150 m long and 80 wide. How many times (rounded off to 1 decimal place) is its perimeter to the length of its diagonal?

- Ans X 1. 2.3
  - X 2. 2.5
  - **3**. 2.7

Question ID: 264330103542 Status : Answered Chosen Option: 3

Q.23 When two circles of radii r<sub>1</sub> and r<sub>2</sub> have their centres at a distance d apart, then length of the common transverse tangent is:

Ans 
$$\times$$
 1.  $\sqrt{d^2 - (r_1 - r_2)^2}$ 

$$\times$$
 2.  $\sqrt{d^2 + (r_1 - r_2)^2}$ 

$$\times$$
 3.  $\sqrt{d - (r_1 - r_2)^2}$ 

$$\checkmark$$
 4.  $\sqrt{d^2 - (r_1 + r_2)^2}$ 

Question ID: 26433083067 Status: Answered Chosen Option: 4

Q.24 If  $\cot A = 1$ ,  $\sin B = \frac{1}{\sqrt{2}}$ , then find the value of  $\sin(A + B) - \cot(A + B)$ .

$$\times$$
 1. 1 –  $\sqrt{2}$ 

$$\times$$
 2.  $\frac{1}{2}$ 

Question ID: 264330130046 Status: Answered Chosen Option : 4

Q.25 If  $x^2 - 15x + 1 = 0$ , what is the value of  $x^4 - 223x^2 + 6$ ?

Ans X 1.9

**2**. 5

**X** 3. 6

**X** 4. 0

Question ID: 264330101355 Status : Answered Chosen Option : 2

Section : English Comprehension

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

A speech by an actor at the end of a play

Ans X 1. Prologue

X 2. Monologue

3. Epilogue

X 4. Duologue

Question ID: 26433088125 Status : Answered

Chosen Option: 3

Q.2 Select the option that is OPPOSITE in meaning to the given word.

Incompetent

Ans X 1. Forlorn

X 2. Desperate

X 3. Hopeless

4. Dexterous

Question ID: 264330122275 Status : Answered Chosen Option: 4

Q.3 Select the option that can be used as a one-word substitute for the given group of words. Someone who lives in solitude Ans X 1. Metropolitan X 2. Cosmopolitan 3. Recluse X 4. Refugee Question ID: 26433086323 Status: Answered Chosen Option: 3 Q.4 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. Lord Ganesha, the Destroyer of Obstacles, is worshipped for his wisdom and brilliance. B.People adore the goddess Lakshmi and Lord Ganesha on Diwali. C.This 'New Year' i.e., Diwali is marked by merchants establishing new account books. D.Goddess Lakshmi is also worshipped on Diwali for wealth and success. Ans X 1. DABC 2. BADC X 3. ADBC X 4. CDBA Question ID: 26433097518 Status: Answered Chosen Option: 2 Q.5 Identify the option that can be substituted as the correct idiom for the underlined part As soon as the principal came to know about the inspection in the school, he put everything in perfect order. Ans 1. Apple pie order X 2. Apple of discord X 3. Alley apple X 4. Apple of one's eye Question ID: 26433088905 Status : Answered Chosen Option: 1 Q.6 Select the correct idiom that can substitute the italicised group of words in the given Shelley has been contemplating for a few days but still has not decided to quit the job. Ans X 1. biting the dust 2. chewing the cud X 3. cooling one's heels 4. getting into hot waters Question ID: 26433093260 Status: Answered Chosen Option: 1

	Select the option that expresses the given sentence in active voic The growing population of India will have been controlled by the I 2040.	ndian government by
Ans	X 1. By 2040, the Indian population will have continued to grow unc	ontrollably
	2. By 2040, the Indian government will have controlled the growing	
	★ 3. By 2040, the Indian government is successfully controlling the gladia.	growing population of
	★ 4. The Indian population will have stabilised by 2022.	
		Question ID : 264330123018
		Status : Answered
		Chosen Option : 2
Q.12	Select the option that can be used as a one-word substitute for th words.  One who loves mankind	e given group of
Ans		
	X 2. Pessimist	
	X 3. Optimist	
	✓ 4. Philanthropist	
		_
		Question ID : 26433086319 Status : Answered
		Chosen Option : 4
_		
Q.13 Ans	Select the INCORRECTLY spelt word.  1. Allimony	
	★ 2. Structural	
	X 3. Hallucinate	
	X 4. Halloween	
		Question ID : 264330120776 Status : Answered
		Chosen Option : 1
0 4 4	Coloct the most engagement of the given would	
Q.14	Select the most appropriate synonym of the given word.	
	Select the most appropriate synonym of the given word.  Judicious  1. Sensible	
	Judicious   ✓ 1. Sensible	
Q.14 Ans	Judicious  1. Sensible  2. Imprudent	
	Judicious  1. Sensible  2. Imprudent  3. Careless	
	Judicious  1. Sensible  2. Imprudent	
	Judicious  1. Sensible  2. Imprudent  3. Careless	Question ID : <b>26433091881</b>
	Judicious  1. Sensible  2. Imprudent  3. Careless	Status : Answered
	Judicious  1. Sensible  2. Imprudent  3. Careless	
Ans	Judicious  1. Sensible  2. Imprudent  3. Careless	Status : Answered
Ans	Judicious  1. Sensible  2. Imprudent  3. Careless  4. Short-sighted	Status : Answered
Ans Q.15	Judicious  1. Sensible  2. Imprudent  3. Careless  4. Short-sighted  Select the most appropriate option to fill in the blank.  Which do you usually take to reach your office?	Status : Answered
Ans Q.15	Judicious  1. Sensible  2. Imprudent  3. Careless  4. Short-sighted  Select the most appropriate option to fill in the blank.  Which do you usually take to reach your office?  1. route  2. root	Status : Answered
Ans Q.15	Judicious  1. Sensible  2. Imprudent  3. Careless  4. Short-sighted  Select the most appropriate option to fill in the blank.  Which do you usually take to reach your office?  1. route	Status : Answered
Ans	Judicious  1. Sensible  2. Imprudent  3. Careless  4. Short-sighted  Select the most appropriate option to fill in the blank.  Which do you usually take to reach your office?  1. route  2. root	Status : Answered
Ans	Judicious  1. Sensible  2. Imprudent  3. Careless  4. Short-sighted  Select the most appropriate option to fill in the blank.  Which do you usually take to reach your office?  1. route  2. root  3. rout	Status : Answered Chosen Option : 1
Ans	Judicious  1. Sensible  2. Imprudent  3. Careless  4. Short-sighted  Select the most appropriate option to fill in the blank.  Which do you usually take to reach your office?  1. route  2. root  3. rout	Status : Answered

Q.16 Select the most appropriate synonym of the given word. Extol X 1. Reward Ans X 2. Punish X 3. Dismay 4. Praise Question ID: 26433096219 Status : Answered Chosen Option: 3 Q.17 Select the option that can be used as a one-word substitute for the given group of Author's explanatory remarks at the beginning of a book Ans 1. Preface X 2. Foreward X 3. Bibliography X 4. Biography Question ID: 26433088121 Status : Answered Chosen Option :  ${\bf 1}$ Q.18 Identify how will you say that "The doctor treated the victims of the violence very carefully", in the passive voice. Ans X 1. The doctor was very careful while providing treatment to the victims X 2. The doctor's care was shown to the victims of the violence 3. The victims of the violence were treated very carefully by the doctor X 4. The victims were treated attentively by the doctor Question ID: 264330122788 Status : Answered Chosen Option: 3 Q.19 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. Arrange the sentences in the correct order to form a meaningful and coherent paragraph. S1. He sat in his seat A.hardly showing any signs of hearing B.beside the bed, C.gazing sternly D.at the patient's face S6. what they were saying to him. Ans X 1. DABC 2. BCDA X 3. DCAB X 4. DBAC Question ID: 26433092123 Status: Answered Chosen Option: 2

.20	Select the most appropriate option to fill in the blan Hundreds of firms went bankrupt during the			
ns	1. recission	·		
	× 2. revision			
	• •			
	X 3. remission			
	4. recession			
			Over-time ID - 0042222222	
			Question ID : 26433099003 Status : Answered	
			Chosen Option : 4	
	Comprehension:			
	select the most appropriate option to fill in each blank. Changes to the earth's climate, driven by increased (1) gases, are already having widespread effects on the en ice sheets, occurrence of shifts in flower/plant blooming (2) in the natural ecosystem. Conditions like t intrusion have advanced to the point where whole (3) protracted droughts are putting people at risk of (4) global warming are (5) for people alive today a keep feeding greenhouse gases into the atmosphere.	vironment. Shri times, etc., are the rise in sea-le have The effe	nking of glaciers and creating an overall evels and saltwater chad to relocate, while cts of human-caused	
	SubQuestion No : 21  Select the most appropriate option to fill in blank nu  1. emission  2. feeding  3. creation  4. fertilisation	umber 1.		
	Select the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option of the most appropriate option to fill it is appropriate option	umber 1.	Ougotion ID : 264220424460	
	Select the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option of the most appropriate option to fill it is appropriate option	umber 1.	Question ID : 264330134160 Status : Answered	
	Select the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option of the most appropriate option to fill it is appropriate option	umber 1.	Status : Answered	
	Select the most appropriate option to fill in blank numbers of the selection of the selecti	umber 1.		
ns	Select the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option to fill in blank number of the most appropriate option of the most appropriate option to fill it is appropriate option	ed. Read the pa of heat- ivironment. Shri i times, etc., are he rise in sea-le have The effe	Status : Answered Chosen Option : 1  ssage carefully and trapping greenhouse nking of glaciers and c creating an overall evels and saltwater had to relocate, while cts of human-caused	
ns	Select the most appropriate option to fill in blank nuture 1. emission  X 2. feeding  X 3. creation  X 4. fertilisation  Comprehension:  In the following passage, some words have been delete select the most appropriate option to fill in each blank. Changes to the earth's climate, driven by increased (1) gases, are already having widespread effects on the enice sheets, occurrence of shifts in flower/plant blooming (2) in the natural ecosystem. Conditions like to intrusion have advanced to the point where whole (3) protracted droughts are putting people at risk of (4) global warming are (5) for people alive today a	ed. Read the pa of heat- ivironment. Shri i times, etc., are he rise in sea-le have The effe	Status : Answered Chosen Option : 1  ssage carefully and trapping greenhouse nking of glaciers and c creating an overall evels and saltwater had to relocate, while cts of human-caused	
าร	Select the most appropriate option to fill in blank nuture 1. emission  1. emission  2. feeding  3. creation  4. fertilisation  Comprehension:  In the following passage, some words have been delete select the most appropriate option to fill in each blank. Changes to the earth's climate, driven by increased (1) gases, are already having widespread effects on the enice sheets, occurrence of shifts in flower/plant blooming (2) in the natural ecosystem. Conditions like to intrusion have advanced to the point where whole (3) protracted droughts are putting people at risk of (4) global warming are (5) for people alive today a keep feeding greenhouse gases into the atmosphere.	ed. Read the pa of heat- vironment. Shri times, etc., are he rise in sea-le have The effe ind will worsen a	Status : Answered Chosen Option : 1  ssage carefully and trapping greenhouse nking of glaciers and c creating an overall evels and saltwater had to relocate, while cts of human-caused	
22	Select the most appropriate option to fill in blank nutral and a mission  X 2. feeding  X 3. creation  X 4. fertilisation  Comprehension:  In the following passage, some words have been delete select the most appropriate option to fill in each blank. Changes to the earth's climate, driven by increased (1) gases, are already having widespread effects on the enice sheets, occurrence of shifts in flower/plant blooming (2) in the natural ecosystem. Conditions like to intrusion have advanced to the point where whole (3) protracted droughts are putting people at risk of (4) global warming are (5) for people alive today a keep feeding greenhouse gases into the atmosphere.  SubQuestion No: 22	ed. Read the pa of heat- vironment. Shri times, etc., are he rise in sea-le have The effe ind will worsen a	Status : Answered Chosen Option : 1  ssage carefully and trapping greenhouse nking of glaciers and c creating an overall evels and saltwater had to relocate, while cts of human-caused	
22	Select the most appropriate option to fill in blank nutral and a consistency.  2. feeding  3. creation  4. fertilisation  Comprehension:  In the following passage, some words have been deleted select the most appropriate option to fill in each blank. Changes to the earth's climate, driven by increased (1) gases, are already having widespread effects on the encice sheets, occurrence of shifts in flower/plant blooming (2) in the natural ecosystem. Conditions like to intrusion have advanced to the point where whole (3) protracted droughts are putting people at risk of (4) global warming are (5) for people alive today as keep feeding greenhouse gases into the atmosphere.  SubQuestion No: 22  Select the most appropriate option to fill in blank numbers.	ed. Read the pa of heat- vironment. Shri times, etc., are he rise in sea-le have The effe ind will worsen a	Status : Answered Chosen Option : 1  ssage carefully and trapping greenhouse nking of glaciers and c creating an overall evels and saltwater had to relocate, while cts of human-caused	
ns	Select the most appropriate option to fill in blank nutral emission  1. emission  2. feeding  3. creation  4. fertilisation  Comprehension:  In the following passage, some words have been delete select the most appropriate option to fill in each blank. Changes to the earth's climate, driven by increased (1) gases, are already having widespread effects on the enice sheets, occurrence of shifts in flower/plant blooming (2) in the natural ecosystem. Conditions like to intrusion have advanced to the point where whole (3) protracted droughts are putting people at risk of (4) global warming are (5) for people alive today at keep feeding greenhouse gases into the atmosphere.  SubQuestion No: 22  Select the most appropriate option to fill in blank nutral ecosystem.	ed. Read the pa of heat- vironment. Shri times, etc., are he rise in sea-le have The effe ind will worsen a	Status : Answered Chosen Option : 1  ssage carefully and trapping greenhouse nking of glaciers and c creating an overall evels and saltwater had to relocate, while cts of human-caused	

Question ID : 264330134161
Status : Answered

	Comprehension:	
Q.23 Ans	In the following passage, some words have been deleted. Read the paselect the most appropriate option to fill in each blank.  Changes to the earth's climate, driven by increased (1) of heatgases, are already having widespread effects on the environment. Shrice sheets, occurrence of shifts in flower/plant blooming times, etc., are (2) in the natural ecosystem. Conditions like the rise in sea-leteration.	trapping greenhouse inking of glaciers and e creating an overall evels and saltwater e had to relocate, while cts of human-caused
	X 2. people	
	X 4. conditions	
		Question ID : 264330134162 Status : Answered
		Chosen Option : 4
	global warming are (5) for people alive today and will worsen keep feeding greenhouse gases into the atmosphere.	trapping greenhouse inking of glaciers and e creating an overall evels and saltwater e had to relocate, while ects of human-caused
0.24	SubQuestion No : 24 Select the most appropriate option to fill in blank number 4.	
Ans	X 1. pregnancy	
	✓ 2. famine	
	X 3. overpopulation	
	X 4. surgery  ✓	
		Question ID : 264330134163 Status : Answered Chosen Option : 2

	Comprehension:
Q.25 Ans	In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.  Changes to the earth's climate, driven by increased (1) of heat-trapping greenhouse gases, are already having widespread effects on the environment. Shrinking of glaciers and ice sheets, occurrence of shifts in flower/plant blooming times, etc., are creating an overall (2) in the natural ecosystem. Conditions like the rise in sea-levels and saltwater intrusion have advanced to the point where whole (3) have had to relocate, while protracted droughts are putting people at risk of (4) The effects of human-caused global warming are (5) for people alive today and will worsen as long as humans keep feeding greenhouse gases into the atmosphere.  SubQuestion No: 25  Select the most appropriate option to fill in blank number 5.  X 1. heart breaking  X 2. contradictory
	2. Contradictory
	√ 3. irreversible
	X 4. conditional
	Question ID : 264330134164 Status : Answered Chosen Option : 3