

## Combined Graduate Level Examination-2019 (Tier-I)

Roll Number	
Candidate Name	
Venue Name	
Exam Date	03/03/2020
Exam Time	1:00 PM - 2:00 PM
Subject	CGLE Tier I

### Section : General Intelligence and Reasoning

**Q.1** In a certain code language, 'HAMMER' is written as 'ICPQJX'. How will 'WRENCH' be written as in that language?

- Ans**
- ☒ 1. XTIRIN
  - ☒ 2. XTIRHN
  - ☒ 3. XTHRIN
  - ☒ 4. XTHRHN

Question ID : 123568108

Status : Answered

Chosen Option : 4

**Q.2** Select the option figure in which the given figure is embedded (rotation is not allowed).



**Ans**

- ☒ 1.
- ☒ 2.
- ☒ 3.
- ☒ 4.

Question ID : 123568123

Status : Answered

Chosen Option : 1

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Q.3 In a certain code language, 'PEN' is coded as '321028'. How will 'TUB' be coded as in that language?

- Ans
- ☒ 1. 40422
  - ☒ 2. 40424
  - ☒ 3. 42404
  - ☒ 4. 44024

Question ID : 123568109

Status : Marked For Review

Chosen Option : 3

Q.4 Select the option that depicts how the given transparent sheet of paper would appear if it is folded at the dotted line.



Ans

- ☒ 1.
- ☒ 2.
- ☒ 3.
- ☒ 4.

Question ID : 123568125

Status : Answered

Chosen Option : 3

Q.5 Select the number that can replace the question mark (?) in the following series.

55, 58, 64, ?, 85

- Ans
- ☒ 1. 77
  - ☒ 2. 70
  - ☒ 3. 67
  - ☒ 4. 73

Question ID : 123568113

Status : Answered

Chosen Option : 4

Q.6 Select the letter that can replace the question mark (?) in the following series.

J, M, P, ?, V, Y

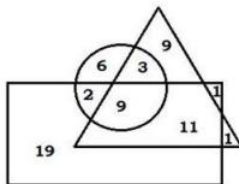
- Ans
- ☒ 1. T
  - ☒ 2. O
  - ☒ 3. S
  - ☒ 4. R

Question ID : 123568102

Status : Answered

Chosen Option : 3

Q.7 In the given Venn diagram, the 'circle' represents 'ladies', the 'triangle' represents 'teachers', and the 'rectangle' represents 'unmarried persons'. The numbers given in the diagram represent the number of persons in that particular category.



How many married ladies are teachers?

- Ans
- ☒ 1. 9
  - ☒ 2. 11
  - ☒ 3. 3
  - ☒ 4. 6

Question ID : 123568126

Status : Answered

Chosen Option : 3

Q.8 Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the number-pair that is different from the rest.

- Ans
- ☒ 1. 39 -72
  - ☒ 2. 28-60
  - ☒ 3. 42 -12
  - ☒ 4. 57-38

Question ID : 123568115

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.9 Select the option in which the words share the same relationship as that shared by the given pair of words.

Faculty : Teachers

- Ans
- ☒ 1. Ants : Flock
  - ☒ 2. Fleet : Trucks
  - ☒ 3. Galaxy : Apartments
  - ☒ 4. Colony : Wolves

Question ID : 123568107

Status : Answered

Chosen Option : 2

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



Ans

- ✗ 1.
- ✗ 2.
- ✗ 3.
- ✓ 4.

Question ID : 123568120

Status : Answered

Chosen Option : 4

Q.11 Three different positions of the same dice are shown. Select the symbol that will be on the face opposite to the one showing '<'.



Ans

- ✗ 1. #
- ✓ 2. @
- ✗ 3. &
- ✗ 4. \$

Question ID : 123568122

Status : Answered

Chosen Option : 2

**Q.12** Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

**Statements:**

1. All dogs are lions.
2. No elephant is a lion.

**Conclusions:**

- I. No dog is an elephant.
- II. No lion is a dog.
- III. Some elephants are dogs.

- Ans**
- ☒ 1. Only conclusion I follows.
  - ☐ 2. Only conclusions II and III follow.
  - ☐ 3. Only conclusions I and III follow.
  - ☐ 4. Only conclusion II follows.

Question ID : 123568112  
Status : Answered  
Chosen Option : 1

**Q.13** Eight words have been given, out of which seven are alike in some manner and one is different. Select the odd word.

Monitor, Headphone, Mouse, Keyboard, Windows, Printer, Scanner, Speaker

- Ans**
- ☐ 1. Mouse
  - ☐ 2. Printer
  - ☐ 3. Monitor
  - ☒ 4. Windows

Question ID : 123568105  
Status : Answered  
Chosen Option : 4

**Q.14** Select the option that is related to the third number in the same way as the second number is related to the first number.

2809 : 53 :: 1524 : ?

- Ans**
- ☐ 1. 31
  - ☐ 2. 35
  - ☒ 3. 32
  - ☐ 4. 33

Question ID : 123568114  
Status : Answered  
Chosen Option : 3

**Q.15** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

- Ans**
- ☐ 1. JMPS
  - ☐ 2. BEHK
  - ☐ 3. ADGJ
  - ☒ 4. FHKM

Question ID : 123568104  
Status : Answered  
Chosen Option : 4



**Q.16** In an exam of 80 questions, a correct answer is given +1 mark, a wrong answer is given -1 mark, and if a question is not attempted there are zero marks. If a student attempted only 80% of the questions and got 32 marks, then how many questions did he answer correctly?

- Ans**
- ☒ 1. 32
  - ☒ 2. 48
  - ☒ 3. 16
  - ☒ 4. 56

Question ID : 123568119

Status : Answered

Chosen Option : 2

**Q.17** Select the correct mirror image of the given figure when a mirror is placed on the right of the figure.



**Ans**

- ☒ 1.
- ☒ 2.
- ☒ 3.
- ☒ 4.

Question ID : 123568124

Status : Answered

Chosen Option : 1

**Q.18** Study the given pattern carefully and select the number that can replace the question mark (?) in it.

5   4   41  
15   6   ?  
9   11   202

- Ans**
- ☒ 1. 212
  - ☒ 2. 209
  - ☒ 3. 261
  - ☒ 4. 122

Question ID : 123568117

Status : Not Attempted and  
Marked For Review

Chosen Option : --

Q.19 Arrange the following words in a logical and meaningful order.

1. Hexagon
2. Nonagon
3. Pentagon
4. Heptagon
5. Octagon

Ans ☒ 1. 3-1-4-5-2  
☒ 2. 1-4-5-2-3  
☒ 3. 1-3-4-5-2  
☒ 4. 4-3-1-2-5

Question ID : 123568103  
 Status : Answered  
 Chosen Option : 1

Q.20 Select the letter-cluster that can replace the question mark (?) in the following series.

BRH, ZUD, ?, VAV, TDR, RGN

Ans ☒ 1. XZZ  
☒ 2. XYZ  
☒ 3. XZY  
☒ 4. XXZ

Question ID : 123568110  
 Status : Answered  
 Chosen Option : 4

Q.21  $A + B$  means 'B is the brother of A';  
 $A - B$  means 'A is the mother of B';  
 $A \times B$  means 'A is the father of B';  
 $A \div B$  means 'A is the son of B'.  
 If,  $P + R \times T - Q \div S + U$ , then how is S related to R?

Ans ☒ 1. Grandfather  
☒ 2. Brother  
☒ 3. Grandson  
☒ 4. Son-in-law

Question ID : 123568111  
 Status : Answered  
 Chosen Option : 4



Q.22 Study the given pattern carefully and select the number that can replace the question mark (?) in it.

7    13    6  
4    22    18  
15    ?    7

- Ans
- ☒ 1. 23
  - ☒ 2. 24
  - ☒ 3. 22
  - ☒ 4. 21

Question ID : 123568116  
Status : Answered  
Chosen Option : 3

Q.23 Which two signs should be interchanged to make the given equation correct?

$$36 \div 2 \times 12 + 3 - 6 = 24$$

- Ans
- ☒ 1. - and ÷
  - ☒ 2. × and -
  - ☒ 3. + and ×
  - ☒ 4. ÷ and ×

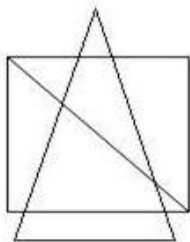
Question ID : 123568118  
Status : Answered  
Chosen Option : 2

Q.24 'Cardiologist' is related to 'Heart' in the same way as 'Neurologist' is related to '\_\_\_\_\_'.

- Ans
- ☒ 1. Lungs
  - ☒ 2. Brain
  - ☒ 3. Teeth
  - ☒ 4. Ears

Question ID : 123568106  
Status : Answered  
Chosen Option : 2

Q.25 How many triangles are there in the given figure?



- Ans
- ☒ 1. 8
  - ☒ 2. 10
  - ☒ 3. 12
  - ☒ 4. 6

Question ID : 123568121  
Status : Marked For Review  
Chosen Option : 4

## Section : General Awareness

Q.1 निशाकाश (रात्रि आकाश) में चमकने वाले पिंडों को किस नाम से जाना जाता है?

- Ans
- ☒ 1. खगोलीय पिंड
  - ☐ 2. क्षुद्रग्रह (ऐस्टेरोइड्स)
  - ☐ 3. तारामंडल
  - ☐ 4. उल्कापिंड

Question ID : 123568136  
Status : Answered  
Chosen Option : 4

Q.2 Archaeologist R Nagaswamy was honoured at the Silver Jubilee International Conference of Art by which country?

- Ans
- ☐ 1. Bhutan
  - ☐ 2. Nepal
  - ☒ 3. Bangladesh
  - ☐ 4. China

Question ID : 123568144  
Status : Not Answered  
Chosen Option : --

Q.3 In which state has the Khadi and Village Industries Commission (KVIC) opened the first silk processing plant?

- Ans
- ☐ 1. Maharashtra
  - ☐ 2. Tamil Nadu
  - ☐ 3. Karnataka
  - ☒ 4. Gujarat

Question ID : 123568149  
Status : Answered  
Chosen Option : 4

Q.4 In January 2020, Home Minister Amit Shah released a book 'Karmayoddha Granth'. This book is based on the life of \_\_\_\_\_.

- Ans
- ☐ 1. Jawaharlal Nehru
  - ☒ 2. Narendra Modi
  - ☐ 3. Sardar Vallabhbhai Patel
  - ☐ 4. Mahatma Gandhi

Question ID : 123568151  
Status : Answered  
Chosen Option : 2

Q.5 Which state's Legislative Assembly adopted a new logo consisting of the national emblem and foxtail orchid (Rhynchostylis Retusa), the state flower, in January 2020?

- Ans
- ☐ 1. Mizoram
  - ☐ 2. Meghalaya
  - ☐ 3. Tripura
  - ☒ 4. Arunachal Pradesh

Question ID : 123568146  
Status : Not Answered  
Chosen Option : --

Q.6 In which of the following states is the Madhavpur Mela celebrated?

- Ans
- ☒ 1. Gujarat
  - ☐ 2. Madhya Pradesh
  - ☐ 3. Uttar Pradesh
  - ☐ 4. Bihar

Question ID : 123568127  
Status : Answered  
Chosen Option : 2

Q.7 निम्नलिखित त्योहारों में से किसका अर्थ 'मेरी मेकिंग ऑफ़ द गॉड्स' है?

- Ans
- ☐ 1. दीवाली
  - ☐ 2. पोंगल
  - ☒ 3. लाई हरोबा
  - ☐ 4. मकर संक्रांति

Question ID : 123568128  
Status : Answered  
Chosen Option : 3

Q.8 Ajatashatru, a ruler of the Haryanka Dynasty, was the son of \_\_\_\_.

- Ans
- ☐ 1. Naga-Dasak
  - ☐ 2. Udayin
  - ☐ 3. Anurudha
  - ☒ 4. Bimbisara

Question ID : 123568139  
Status : Answered  
Chosen Option : 4

Q.9 Which of the following glands is present between the lungs?

- Ans
- ☒ 1. Thymus
  - ☐ 2. Pituitary
  - ☐ 3. Hypothalamus
  - ☐ 4. Pineal

Question ID : 123568132  
Status : Marked For Review  
Chosen Option : 1

Q.10 निम्नलिखित में से कौन कशेरुकी प्राणी नहीं है?

- Ans ☒ 1. घोंघा  
☒ 2. पक्षी  
☒ 3. स्तनधारी  
☒ 4. मछली

Question ID : 123568133  
 Status : Answered  
 Chosen Option : 1

Q.11 Which law of physics states that the force between the two electric charges reduces to a quarter of its former value when the distance between them is doubled?

- Ans ☒ 1. Coulomb's Law  
☒ 2. Stefan's Law  
☒ 3. Pascal's Law  
☒ 4. Hooke's Law

Question ID : 123568134  
 Status : Answered  
 Chosen Option : 1

Q.12 In which of the following countries was the 95th edition of the prestigious Hastings International Chess Congress held?

- Ans ☒ 1. France  
☒ 2. Australia  
☒ 3. England  
☒ 4. Belgium

Question ID : 123568148  
 Status : Not Answered  
 Chosen Option : --

Q.13 When we cut an onion, the synthase enzyme converts the amino acid sulfoxides of the onion into which acid?

- Ans ☒ 1. Sulfenic acid  
☒ 2. Citric acid  
☒ 3. Nitric acid  
☒ 4. Sulphuric acid

Question ID : 123568135  
 Status : Answered  
 Chosen Option : 1

Q.14 Which of the following is the major component of vinegar?

- Ans ☒ 1. Citric acid  
☒ 2. Lactic acid  
☒ 3. Nitric acid  
☒ 4. Acetic acid

Question ID : 123568131  
 Status : Answered  
 Chosen Option : 4

Q.15 Which of the following was previously known as 'the Lady Willingdon Park'?

- Ans
- ☐ 1. Buddha Jayanti Park
  - ☐ 2. Mughal Gardens
  - ☐ 3. Deer Park
  - ☒ 4. Lodhi Gardens

Question ID : 123568142  
Status : Answered  
Chosen Option : 1

Q.16 'Industry 4.0' is a complex cyber-physical system which synergies production with digital technologies. The Ministry of Railways and the Department of Science and Technology have joined hands in partnership with which institution for taking up a unique project on 'Industry 4.0'?

- Ans
- ☒ 1. IIT Kanpur
  - ☐ 2. IIT Bombay
  - ☐ 3. IIT Madras
  - ☐ 4. IIT Delhi

Question ID : 123568145  
Status : Answered  
Chosen Option : 3

Q.17 Who among the following was honoured with the 50th Dadasaheb Phalke Award?

- Ans
- ☐ 1. Anupam Kher
  - ☐ 2. Naseeruddin Shah
  - ☒ 3. Amitabh Bachchan
  - ☐ 4. Kamal Haasan

Question ID : 123568143  
Status : Answered  
Chosen Option : 3

Q.18 In which district of Karnataka is the Brahmagiri Wildlife Sanctuary located?

- Ans
- ☐ 1. Hassan
  - ☐ 2. Mandya
  - ☐ 3. Udipi
  - ☒ 4. Kodagu

Question ID : 123568138  
Status : Answered  
Chosen Option : 2

Q.19 Who among the following was the last ruler of the Nanda dynasty?

- Ans
- ☒ 1. Dhanananda
  - ☐ 2. Panduka
  - ☐ 3. Govishanaka
  - ☐ 4. Kaivarta

Question ID : 123568140  
Status : Answered  
Chosen Option : 1

Q.20 What was India's position in the Brand Finance Nation ranking of 2019?

- Ans ☒ 1. Seventh  
☒ 2. Sixth  
☒ 3. Third  
☒ 4. Fifth

Question ID : 123568130  
 Status : Answered  
 Chosen Option : 4

Q.21 Who became the first Indian equestrian to qualify for the Tokyo Olympics 2020?

- Ans ☒ 1. Fouaad Mirza  
☒ 2. Amit Sinsinwar  
☒ 3. Sehej Singh Virk  
☒ 4. Amar Sarin

Question ID : 123568147  
 Status : Not Answered  
 Chosen Option : --

Q.22 In which state was the Global Investors Meet, ASCEND 2020 organised?

- Ans ☒ 1. Maharashtra  
☒ 2. Kerala  
☒ 3. Rajasthan  
☒ 4. Gujarat

Question ID : 123568129  
 Status : Answered  
 Chosen Option : 4

Q.23 Wings India 2020 is scheduled to be held in which of the following airports?

- Ans ☒ 1. Begumpet Airport  
☒ 2. Warangal Airport  
☒ 3. Rajahmundry Airport  
☒ 4. Vijayawada Airport

Question ID : 123568150  
 Status : Answered  
 Chosen Option : 4

Q.24 Borra caves are situated on the East Coast of India in which of the following hills?

- Ans ☒ 1. Nallamala Hills  
☒ 2. Horsley Hills  
☒ 3. Nagari Hills  
☒ 4. Ananthagiri Hill

Question ID : 123568137  
 Status : Not Attempted and  
 Marked For Review  
 Chosen Option : --



Q.25 In which year was the foundation stone for the Gateway of India laid in Bombay (now Mumbai)?

- Ans
- ✓ 1. 1913
  - ✗ 2. 1915
  - ✗ 3. 1905
  - ✗ 4. 1920

Question ID : 123568141  
Status : Marked For Review  
Chosen Option : 3

Section : Quantitative Aptitude

Q.1 A can complete a certain piece of work in 40 days. B is 25% more efficient than A and C is 28% more efficient than B. They work together for 5 days. The remaining work will be completed by B alone, in:

- Ans
- ✗ 1.  $20\frac{3}{4}$  days
  - ✗ 2.  $16\frac{1}{5}$  days
  - ✓ 3.  $16\frac{3}{5}$  days
  - ✗ 4.  $20\frac{1}{2}$  days

Question ID : 123568160  
Status : Answered  
Chosen Option : 3

Q.2 A race track is in the shape of a ring whose inner and outer circumferences are 440 m and 506 m, respectively. What is the cost of levelling the track at ₹6/m<sup>2</sup>? (Take  $\pi = \frac{22}{7}$ )

- Ans
- ✗ 1. ₹18,966
  - ✗ 2. ₹24,832
  - ✗ 3. ₹19,866
  - ✓ 4. ₹29,799

Question ID : 123568162  
Status : Not Attempted and Marked For Review  
Chosen Option : --

Q.3 The compound interest on a certain sum at 10% p.a. for  $2\frac{1}{3}$  years is ₹1,201.60, interest compounded yearly. The sum is:

- Ans
- ✗ 1. ₹4,200
  - ✓ 2. ₹4,800
  - ✗ 3. ₹5,400
  - ✗ 4. ₹4,500

Question ID : 123568159  
Status : Answered  
Chosen Option : 2

- Q.4** The given table represents the number of engineers recruited by four companies A, B, C and D over the years. Study the table carefully and answer the question that follows.

Company Year	A	B	C	D
2014	120	90	85	105
2015	132	118	93	97
2016	128	98	94	100
2017	140	106	98	116
2018	148	112	105	125
2019	150	118	110	122

The ratio of the total number of engineers recruited by companies A and B in 2015 and 2018 to the total number of engineers recruited by C and D in 2014 and 2018, is:

- Ans
1. 28 : 19
2. 13 : 21
3. 17 : 14
4. 9 : 14

Question ID : 123568173

Status : Answered

Chosen Option : 3

- Q.5** Two bottles of the same capacity are 35% and  $33\frac{1}{3}\%$  full of orange juice, respectively. They are filled up completely with apple juice and then the contents of both bottles are emptied into another vessel. The percentage of apple juice in the mixture is:

- Ans
1.  $34\frac{1}{6}$
2.  $64\frac{1}{3}$
3.  $60\frac{2}{3}$
4.  $65\frac{5}{6}$

Question ID : 123568156

Status : Marked For Review

Chosen Option : 3

- Q.6** In  $\triangle ABC$ ,  $AB = AC$  and  $AL$  is perpendicular to  $BC$  at  $L$ . In  $\triangle DEF$ ,  $DE = DF$  and  $DM$  is perpendicular to  $EF$  at  $M$ . If  $(\text{area of } \triangle ABC) : (\text{area of } \triangle DEF) = 9:25$ , then  $\frac{DM+AL}{DM-AL}$  is equal to:

- Ans
1. 6
2. 4
3. 3
4. 5

Question ID : 123568168

Status : Answered

Chosen Option : 2

**Q.7** The given table represents the number of engineers recruited by four companies A, B, C and D over the years. Study the table carefully and answer the question that follows.

Company Year	A	B	C	D
2014	120	90	85	105
2015	132	118	93	97
2016	128	98	94	100
2017	140	106	98	116
2018	148	112	105	125
2019	150	118	110	122

The number of the years in which the number of engineers recruited by company D is less than the average number of engineers recruited by B in the given six years, is:

- Ans
- ☒ 1. 3
  - ☐ 2. 1
  - ☐ 3. 4
  - ☐ 4. 2

Question ID : 123568174

Status : Answered

Chosen Option : 1

**Q.8** The value of  $(18 \div 2 \text{ of } \frac{1}{4}) \times (\frac{2}{3} \div \frac{3}{4} \times \frac{5}{8}) \div (\frac{2}{3} \div \frac{3}{4} \text{ of } \frac{3}{4})$  is:

- Ans
- ☐ 1.  $10\frac{2}{3}$
  - ☐ 2.  $8\frac{5}{8}$
  - ☒ 3.  $16\frac{7}{8}$
  - ☐ 4.  $2\frac{7}{64}$

Question ID : 123568153

Status : Answered

Chosen Option : 3

**Q.9** If  $2 \sin \theta + 15 \cos^2 \theta = 7$ ,  $0^\circ < \theta < 90^\circ$ , then  $\tan \theta + \cos \theta + \sec \theta =$

- Ans
- ☒ 1.  $3\frac{3}{5}$
  - ☐ 2. 3
  - ☐ 3.  $3\frac{4}{5}$
  - ☐ 4. 4

Question ID : 123568170

Status : Marked For Review

Chosen Option : 1

Q.10  $\Delta ABC$  is an equilateral triangle and  $AD \perp BC$ , where D lies on BC. If  $AD = 4\sqrt{3}$  cm, then what is the perimeter (in cm) of  $\Delta ABC$ ?

- Ans
- ☒ 1. 27
  - ☒ 2. 24
  - ☒ 3. 30
  - ☒ 4. 21

Question ID : 123568169  
Status : Answered  
Chosen Option : 2

Q.11 PQRS is a cyclic quadrilateral in which  $PQ = x$  cm,  $QR = 16.8$  cm,  $RS = 14$  cm,  $PS = 25.2$  cm, and PR bisects QS. What is the value of  $x$ ?

- Ans
- ☒ 1. 18
  - ☒ 2. 21
  - ☒ 3. 28
  - ☒ 4. 24

Question ID : 123568166  
Status : Answered  
Chosen Option : 3

Q.12 If  $\frac{\sec\theta - \tan\theta}{\sec\theta + \tan\theta} = \frac{3}{5}$ , then the value of  $\frac{\operatorname{cosec}\theta + \cot\theta}{\operatorname{cosec}\theta - \cot\theta}$  is:

- Ans
- ☒ 1.  $24 + \sqrt{15}$
  - ☒ 2.  $31 + 8\sqrt{15}$
  - ☒ 3.  $27 + \sqrt{15}$
  - ☒ 4.  $33 + 4\sqrt{15}$

Question ID : 123568171  
Status : Not Attempted and Marked For Review  
Chosen Option : --

Q.13 The given table represents the number of engineers recruited by four companies A, B, C and D over the years. Study the table carefully and answer the question that follows.

Company Year	A	B	C	D
2014	120	90	85	105
2015	132	118	93	97
2016	128	98	94	100
2017	140	106	98	116
2018	148	112	105	125
2019	150	118	110	122

The total number of engineers recruited by company A in 2014 to 2017 is what percentage more than the total number of engineers recruited by all four companies in 2019?

- Ans
- ☒ 1. 3
  - ☒ 2. 3.5
  - ☒ 3. 2.5
  - ☒ 4. 4

Question ID : 123568176  
Status : Answered  
Chosen Option : 4

**Q.14** If  $x$  is the mean proportional between 12.8 and 64.8 and  $y$  is the third proportional to 38.4 and 57.6, then  $2x : y$  is equal to:

- Ans ☒ 1. 2 : 3  
☒ 2. 4 : 5  
☒ 3. 3 : 4  
☒ 4. 1 : 2

Question ID : 123568158  
 Status : Answered  
 Chosen Option : 1

**Q.15** The average of the first four numbers is three times the fifth number. If the average of all the five numbers is 85.8, then the fifth number is:

- Ans ☒ 1. 33  
☒ 2. 34  
☒ 3. 39  
☒ 4. 29

Question ID : 123568154  
 Status : Answered  
 Chosen Option : 1

**Q.16** Quadrilateral ABCD circumscribes a circle. If  $AB = 8$  cm,  $BC = 7$  cm and  $CD = 6$  cm, then the length of AD is:

- Ans ☒ 1. 6 cm  
☒ 2. 7.5 cm  
☒ 3. 7 cm  
☒ 4. 6.8 cm

Question ID : 123568167  
 Status : Answered  
 Chosen Option : 2

**Q.17** The expression  $(a + b - c)^3 + (a - b + c)^3 - 8a^3$  is equal to:

- Ans ☒ 1.  $6a(a - b + c)(c - a - b)$   
☒ 2.  $3a(a + b - c)(a - b + c)$   
☒ 3.  $6a(a + b - c)(a - b + c)$   
☒ 4.  $3a(a - b + c)(c - a - b)$

Question ID : 123568163  
 Status : Not Answered  
 Chosen Option : --

Q.18 If  $x^4 + x^2y^2 + y^4 = 21$  and  $x^2 + xy + y^2 = 7$ , then the value of  $(\frac{1}{x^2} + \frac{1}{y^2})$  is:

- Ans
- ☒ 1.  $\frac{5}{2}$
  - ☒ 2.  $\frac{7}{4}$
  - ☒ 3.  $\frac{5}{4}$
  - ☒ 4.  $\frac{7}{3}$

Question ID : 123568165

Status : Not Answered

Chosen Option : --

Q.19 The given table represents the number of engineers recruited by four companies A, B, C and D over the years. Study the table carefully and answer the question that follows.

Company Year	A	B	C	D
2014	120	90	85	105
2015	132	118	93	97
2016	128	98	94	100
2017	140	106	98	116
2018	148	112	105	125
2019	150	118	110	122

The total number of engineers recruited by company B in 2014 and 2017 is what percentage of the total number of engineers recruited by C during 2015 to 2019?

- Ans
- ☒ 1. 38.4
  - ☒ 2. 38.2
  - ☒ 3. 39.2
  - ☒ 4. 37.8

Question ID : 123568175

Status : Answered

Chosen Option : 3

Q.20 The value of the expression  $\operatorname{cosec}(85^\circ + \theta) - \sec(5^\circ - \theta) - \tan(55^\circ + \theta) + \cot(35^\circ - \theta)$  is:

- Ans
- ☒ 1.  $\frac{3}{2}$
  - ☒ 2. 0
  - ☒ 3. -1
  - ☒ 4. 1

Question ID : 123568172

Status : Answered

Chosen Option : 2

Q.21 When 200 is divided by a positive integer  $x$ , the remainder is 8. How many values of  $x$  are there?

- Ans
- ☒ 1. 7
  - ☒ 2. 5
  - ☒ 3. 8
  - ☒ 4. 6

Question ID : 123568152

Status : Not Answered

Chosen Option : --



Q.22 If  $x^2 + 3x + 1 = 0$ , then what is the value of  $x^6 + \frac{1}{x^6}$ ?

- Ans
- ☒ 1. 324
  - ☒ 2. 322
  - ☒ 3. 318
  - ☒ 4. 327

Question ID : 123568164  
Status : Answered  
Chosen Option : 2

Q.23 Anu fixes the selling price of an article at 25% above its cost of production. If the cost of production goes up by 20% and she raises the selling price by 10%, then her percentage profit is (correct to one decimal place):

- Ans
- ☒ 1. 16.4%
  - ☒ 2. 14.6%
  - ☒ 3. 13.8%
  - ☒ 4. 15.2%

Question ID : 123568157  
Status : Answered  
Chosen Option : 2

Q.24 A and B start moving towards each other from places X and Y, respectively, at the same time. The speed of A is 20% more than that of B. After meeting on the way, A and B take  $2\frac{1}{2}$  hours and  $x$  hours, now to reach Y and X, respectively. What is the value of  $x$ ?

- Ans
- ☒ 1.  $3\frac{3}{5}$
  - ☒ 2.  $3\frac{2}{3}$
  - ☒ 3.  $3\frac{1}{2}$
  - ☒ 4.  $3\frac{2}{5}$

Question ID : 123568161  
Status : Not Answered  
Chosen Option : --

Q.25 A dealer marks an article 40% above the cost price and sells it to a customer, allowing two successive discounts of 20% and 25% on the marked price. If he suffers a loss of ₹140, then the cost price (in ₹) of the article is:

- Ans
- ☒ 1. 900
  - ☒ 2. 840
  - ☒ 3. 872
  - ☒ 4. 875

Question ID : 123568155  
Status : Not Answered  
Chosen Option : --

Q.1 In the sentence identify the segment which contains the grammatical error.

The modern man is busy acquiring more and more wealth and designing ways to invest it in more sense pleasures.

- Ans
- ☒ 1. designing ways to invest it
  - ☒ 2. in more sense pleasures
  - ☒ 3. modern man is busy
  - ☒ 4. acquiring more and more wealth

Question ID : 123568178

Status : Answered

Chosen Option : 2

Q.2 Select the most appropriate word to substitute the underlined word of the given sentence. If no substitution is required, select 'No improvement'.

There is a great degrade in values in modern age.

- Ans
- ☒ 1. degradation of values
  - ☒ 2. deliberation for values
  - ☒ 3. demonstration from values
  - ☒ 4. No improvement

Question ID : 123568182

Status : Answered

Chosen Option : 1

Q.3 Select the most appropriate word to fill in the blank.

It is an \_\_\_\_\_ day to start your new business.

- Ans
- ☒ 1. audacious
  - ☒ 2. ominous
  - ☒ 3. auspicious
  - ☒ 4. occasional

Question ID : 123568202

Status : Answered

Chosen Option : 3

Q.4 Select the synonym of the given word.

**PATHETIC**

- Ans
- ☒ 1. Pitiful
  - ☒ 2. Dull
  - ☒ 3. Insignificant
  - ☒ 4. Curious

Question ID : 123568191

Status : Answered

Chosen Option : 1

Q.5 Select the antonym of the given word.

HILARIOUS

- Ans
- ☒ 1. Blithe
  - ☒ 2. Merry
  - ☒ 3. Sad
  - ☒ 4. Happy

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Question ID : 123568194

Status : Answered

Chosen Option : 3

Q.6 Select the correct indirect form of the given sentence.

He said to me, "What are you doing?"

- Ans
- ☒ 1. He said what I had been doing.
  - ☒ 2. He said that what I was doing.
  - ☒ 3. He asked me what I was doing.
  - ☒ 4. He asked me that what was I doing.

Question ID : 123568180

Status : Answered

Chosen Option : 3

#### Comprehension:

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

Machines were made to be man's servants. Yet, man has grown so (1)\_\_\_\_\_ on them that they are in a fair way to become his (2)\_\_\_\_\_. Already men spend most of their lives looking after and waiting (3)\_\_\_\_\_ machines. Machines are very stern bosses. They must be fed with coal and (4)\_\_\_\_\_ petrol to drink and oil to wash with and must be kept at an (5)\_\_\_\_\_ temperature.

SubQuestion No : 7

Q.7 Select the most appropriate option for blank no. 1

- Ans
- ☒ 1. subordinate
  - ☒ 2. dependent
  - ☒ 3. inferior
  - ☒ 4. helpless

Question ID : 123568184

Status : Answered

Chosen Option : 2

### Comprehension:

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

Machines were made to be man's servants. Yet, man has grown so (1)\_\_\_\_\_ on them that they are in a fair way to become his (2)\_\_\_\_\_. Already men spend most of their lives looking after and waiting (3)\_\_\_\_\_ machines. Machines are very stern bosses. They must be fed with coal and (4)\_\_\_\_\_ petrol to drink and oil to wash with and must be kept at an (5)\_\_\_\_\_ temperature.

#### SubQuestion No : 8

Q.8 Select the most appropriate option for blank no. 2

- Ans ☒ 1. masters  
☒ 2. victims  
☒ 3. slaves  
☒ 4. administrators

Question ID : 123568185  
Status : Answered  
Chosen Option : 1

### Comprehension:

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

Machines were made to be man's servants. Yet, man has grown so (1)\_\_\_\_\_ on them that they are in a fair way to become his (2)\_\_\_\_\_. Already men spend most of their lives looking after and waiting (3)\_\_\_\_\_ machines. Machines are very stern bosses. They must be fed with coal and (4)\_\_\_\_\_ petrol to drink and oil to wash with and must be kept at an (5)\_\_\_\_\_ temperature.

#### SubQuestion No : 9

Q.9 Select the most appropriate option for blank no. 3

- Ans ☒ 1. from  
☒ 2. upon  
☒ 3. under  
☒ 4. into

Question ID : 123568186  
Status : Answered  
Chosen Option : 2

### Comprehension:

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

Machines were made to be man's servants. Yet, man has grown so (1)\_\_\_\_\_ on them that they are in a fair way to become his (2)\_\_\_\_\_. Already men spend most of their lives looking after and waiting (3)\_\_\_\_\_ machines. Machines are very stern bosses. They must be fed with coal and (4)\_\_\_\_\_ petrol to drink and oil to wash with and must be kept at an (5)\_\_\_\_\_ temperature.

#### SubQuestion No : 10

Q.10 Select the most appropriate option for blank no. 4

- Ans ☒ 1. given  
☒ 2. gives  
☒ 3. gave  
☒ 4. give

Question ID : 123568187  
Status : Answered  
Chosen Option : 1

### Comprehension:

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

Machines were made to be man's servants. Yet, man has grown so (1)\_\_\_\_\_ on them that they are in a fair way to become his (2)\_\_\_\_\_. Already men spend most of their lives looking after and waiting (3)\_\_\_\_\_ machines. Machines are very stern bosses. They must be fed with coal and (4)\_\_\_\_\_ petrol to drink and oil to wash with and must be kept at an (5)\_\_\_\_\_ temperature.

### SubQuestion No : 11

Q.11 Select the most appropriate option for blank no. 5

- Ans
- ☒ 1. outdated
  - ☒ 2. optimum
  - ☒ 3. optional
  - ☒ 4. optimist

Question ID : 123568188

Status : Answered

Chosen Option : 2

Q.12 Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

- A. Can I borrow your camera?
- B. I will give it back to you next week.
- C. I am going to jungle safari tomorrow.
- D. My friend told me that jungle is beautiful in these days.

- Ans
- ☒ 1. CDAB
  - ☒ 2. BACD
  - ☒ 3. ADBC
  - ☒ 4. CADB

Question ID : 123568189

Status : Answered

Chosen Option : 1

Q.13 Select one word for the following group of words.

One who leaves his own country to settle in another

- Ans
- ☒ 1. Foreigner
  - ☒ 2. Emigrant
  - ☒ 3. Tourist
  - ☒ 4. Native

Question ID : 123568198

Status : Answered

Chosen Option : 2

Q.14 Select the wrongly spelt word.

- Ans
- ☒ 1. Practicle
  - ☒ 2. Flexible
  - ☒ 3. Flashy
  - ☒ 4. Elegant

Question ID : 123568199

Status : Answered

Chosen Option : 1

Q.15 In the sentence identify the segment which contains the grammatical error.

The Prime Minister, along with the other ministers have left for America.

- Ans
- ☒ 1. for America
  - ☒ 2. The Prime Minister along with
  - ☒ 3. have left
  - ☒ 4. the other ministers

Question ID : 123568177  
Status : Answered  
Chosen Option : 3

Q.16 Select the wrongly spelt word.

- Ans
- ☒ 1. Ostentasion
  - ☒ 2. Mansion
  - ☒ 3. Extension
  - ☒ 4. Persuasion

Question ID : 123568200  
Status : Answered  
Chosen Option : 1

Q.17 Select the antonym of the given word.

VICIOUS

- Ans
- ☒ 1. Baneful
  - ☒ 2. Unfortunate
  - ☒ 3. Virtuous
  - ☒ 4. Sinful

Question ID : 123568193  
Status : Answered  
Chosen Option : 3

Q.18 Select the most appropriate word to fill in the blank.

He \_\_\_\_\_ a heinous crime.

- Ans
- ☒ 1. happened
  - ☒ 2. committed
  - ☒ 3. made
  - ☒ 4. occurred

Question ID : 123568201  
Status : Answered  
Chosen Option : 2



Q.19 Select the most appropriate meaning of the given idiom

On shank's mare

- Ans
- ☒ 1. On an elephant
  - ☒ 2. On a lion
  - ☒ 3. On a bicycle
  - ☒ 4. On foot

Question ID : 123568196  
Status : Answered  
Chosen Option : 2

Q.20 Select the most appropriate meaning of the given idiom

A snake in the grass

- Ans
- ☒ 1. A well-wisher
  - ☒ 2. Difficult to find
  - ☒ 3. A good friend
  - ☒ 4. A secret enemy

Question ID : 123568195  
Status : Answered  
Chosen Option : 4

Q.21 Select one word for the following group of words.

A period of ten years

- Ans
- ☒ 1. Fortnight
  - ☒ 2. Millennium
  - ☒ 3. Decade
  - ☒ 4. Century

Question ID : 123568197  
Status : Answered  
Chosen Option : 3

Q.22 Select the synonym of the given word.

PENITENCE

- Ans
- ☒ 1. Patience
  - ☒ 2. Repentance
  - ☒ 3. Misery
  - ☒ 4. Admiration

Question ID : 123568192  
Status : Marked For Review  
Chosen Option : 2

- Q.23 Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.
- Nevertheless, sound health, economic security and mental satisfaction are desired by all
  - A change that is conducive to happiness may be termed as progress.
  - But different people find happiness in different things.
  - So, If a change contributes to the growth of these factors, it is progress.

Ans ☒ 1. BDCA  
☒ 2. ABCD  
☒ 3. BCAD  
☒ 4. DBCA

Question ID : 123568190  
 Status : Marked For Review  
 Chosen Option : 3

- Q.24 Select the correct active form of the given sentence.

The thief was being arrested by the police.

Ans ☒ 1. The police has arrested the thief.  
☒ 2. The police arrested the thief.  
☒ 3. The police had arrested the thief.  
☒ 4. The police was arresting the thief.

Question ID : 123568179  
 Status : Answered  
 Chosen Option : 4

- Q.25 Select the most appropriate segment to substitute the underlined segment of the given sentence. If no substitution is required select 'No improvement'

A man in need pleaded for help.

Ans ☒ 1. promised for help  
☒ 2. commanded to help  
☒ 3. No improvement  
☒ 4. requested for helping

Question ID : 123568181  
 Status : Answered  
 Chosen Option : 3