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

| Roll Number | www.exammix.com |
|---|---|
| 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**

**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.
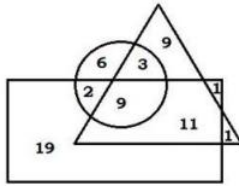
J, M, P, ? , V, Y

**Ans**   ✗ 1. T

   ✗ 2. O

   ✔ 3. S

   ✗ 4. R

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|---|---|
| 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

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|---|---|
| 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 × B means 'A is the father of B';

A ÷ B means 'A is the son of B'.

If, P + R × T – Q ÷ 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 −
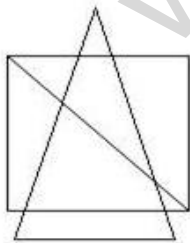✗ 3. + and ×
✗ 4. ÷ and ×

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 (ऐस्टेरॉइड्स)

✘ 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

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|---|---|
| | 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. Udupi

✓ 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/ m² ? (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
(area of $\triangle ABC$) : (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 $(18 \div 2 \ of \ \frac{1}{4}) \times (\frac{2}{3} \div \frac{3}{4} \times \frac{5}{8}) \div (\frac{2}{3} \div \frac{3}{4} \ of \ \frac{3}{4})$ 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 $2 \sin\theta + 15 \cos^2\theta = 7$, $0° < \theta < 90°$, 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** Δ ABC is an equilateral triangle and AD ⊥ BC , where D lies on BC. If AD = $4\sqrt{3}$ cm, then what is the perimeter (in cm) of Δ 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 $\frac{cosec\theta + cot\theta}{cosec\theta - cot\theta}$ 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.

| Year \ Company | 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 $cosec(85° + \theta) - sec(5° - \theta) - tan(55° + \theta) + cot(35° - \theta)$ 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 : **--** | |

Section : **English Comprehension**

**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        www.exammix.com

✗ 4. Happy

| | |
|---|---|
| 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.
A. Nevertheless, sound health, economic security and mental satisfaction are desired by all
B. A change that is conducive to happiness may be termed as progress.
C. But different people find happiness in different things.
D. 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**