

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

Roll Number	
Candidate Name	
Venue Name	iON Digital Zone iDZ Hooghly
Exam Date	07/03/2020
Exam Time	4:00 PM - 5:00 PM
Subject	CGLE Tier I

Section : **General Intelligence and Reasoning**

**Q.1** 'Bangladesh' is related to 'Dhaka' in the same way as 'Pakistan' is related to '\_\_\_\_\_'.  
3 : 20 :: 7 : ?

- Ans
- ☒ 1. Karachi
  - ☒ 2. Islamabad
  - ☒ 3. Multan
  - ☒ 4. Lahore

Question ID : **816161734**  
Status : **Answered**  
Chosen Option : **2**

**Q.2** Select the option that is related to the third number in the same way as the second number is related to the first number.  
3 : 20 :: 7 : ?

- Ans
- ☒ 1. 105
  - ☒ 2. 96
  - ☒ 3. 100
  - ☒ 4. 98

Question ID : **816161742**  
Status : **Not Answered**  
Chosen Option : **--**

**Q.3** 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. 19-114
  - ☒ 2. 17-102
  - ☒ 3. 12-72
  - ☒ 4. 28-164

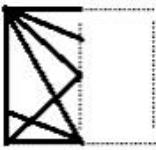
Question ID : **816161743**  
Status : **Answered**  
Chosen Option : **1**

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

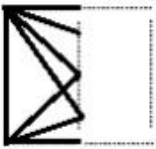


**Ans**

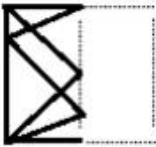
☒ 1.



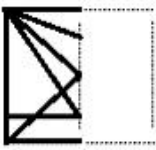
☒ 2.



☒ 3.



☒ 4.



Question ID : 816161753

Status : Answered

Chosen Option : 2

**Q.5** Hemant buys a dozen eggs for ₹5.50 per egg. While carrying them, two eggs get wasted when they fall down and get damaged. He sells the balance eggs at ₹7.70 per egg. Find the net profit earned by him in the overall deal.

**Ans** ☒ 1. ₹11.00

☒ 2. ₹15.00

☒ 3. ₹10.70

☒ 4. ₹15.40

Question ID : 816161747

Status : Not Answered

Chosen Option : --

**Q.6** In a certain code language, 'FIGURE' is written as 'DJEVPE'. How will 'DECODE' be written as in that language?

**Ans** ☒ 1. BFDNBF

☒ 2. BDANBD

☒ 3. BDDNBD

☒ 4. BFAPBF

Question ID : 816161736

Status : Answered

Chosen Option : 4

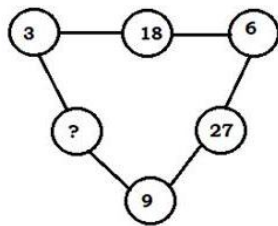
**Q.7** Study the given pattern carefully and select the number that can replace the question mark (?) in it.

7	3	11
4	9	23
11	7	?

- Ans
- ☒ 1. 71
  - ☒ 2. 77
  - ☒ 3. 63
  - ☒ 4. 59

Question ID : 816161745  
Status : Answered  
Chosen Option : 4

**Q.8** Study the given pattern carefully and select the number that can replace the question mark (?) in it.



- Ans
- ☒ 1. 38
  - ☒ 2. 18
  - ☒ 3. 29
  - ☒ 4. 54

Question ID : 816161744  
Status : Answered  
Chosen Option : 4

**Q.9** In a certain code language, 'LAMP' is coded as '2422632'. How will 'FORK' be coded as in that language?

- Ans
- ☒ 1. 12302624
  - ☒ 2. 12303622
  - ☒ 3. 12303424
  - ☒ 4. 12303422

Question ID : 816161737  
Status : Answered  
Chosen Option : 2

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

1, 5, 9, ?, 21

- Ans
- ☒ 1. 20
  - ☒ 2. 11
  - ☒ 3. 19
  - ☒ 4. 15

Question ID : 816161741  
Status : Not Answered  
Chosen Option : --

**Q.11** Which two signs should be interchanged to make the given equation correct?

$$121 \div 11 + 54 - 9 \times 3 = 128$$

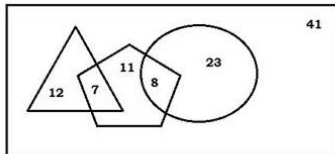
- Ans**
- ☒ 1. + and -
  - ☒ 2. + and  $\times$
  - ☒ 3.  $\div$  and -
  - ☒ 4.  $\times$  and  $\div$

Question ID : 816161746

Status : Answered

Chosen Option : 3

**Q.12** In the given Venn diagram, the 'rectangle' represents 'ladies of a club', the 'triangle' represents 'like to dance', the 'circle' represents 'like to sing' and the 'pentagon' represents 'like to mimic'. The numbers given in the diagram represent the number of persons in that particular category.



How many ladies of the club NEITHER like to dance NOR like to mimic?

- Ans**
- ☒ 1. 23
  - ☒ 2. 72
  - ☒ 3. 26
  - ☒ 4. 64

Question ID : 816161754

Status : Not Answered

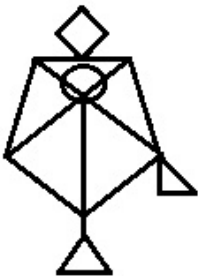
Chosen Option : --

Q.13 Select the option in which the given figure is NOT embedded (rotation is not allowed).

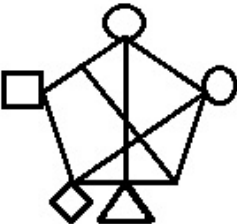


Ans

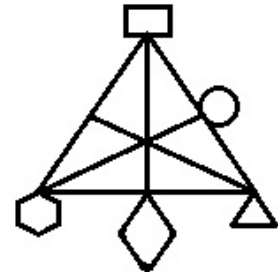
✗ 1.



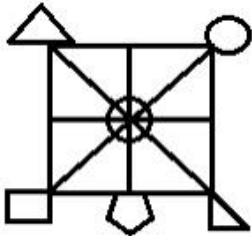
✗ 2.



✗ 3.



✓ 4.



Question ID : 816161751

Status : Answered

Chosen Option : 4

Q.14  $A + B$  means 'B is the daughter of B';

$A - B$  means 'B is the sister of A';

$A \times B$  means 'B is the husband of A';

$A \div B$  means 'A is the father of B'.

If,  $P \div R \times T + Q - S \times U + Z$ , then how is R related to Z?

- Ans
- ☒ 1. Maternal grandfather
  - ☒ 2. Maternal grandmother
  - ☐ 3. Paternal grandfather
  - ☐ 4. Paternal grandmother

Question ID : 816161739

Status : Answered

Chosen Option : 1

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. GHJMP
  - ☐ 2. ABDGK
  - ☐ 3. BCEHL
  - ☐ 4. NOQTX

Question ID : 816161732

Status : Answered

Chosen Option : 1

Q.16 Select the letter that can replace the question mark (?) in the following series.

A, D, ?, P, Y

- Ans
- ☒ 1. I
  - ☐ 2. H
  - ☐ 3. J
  - ☐ 4. G

Question ID : 816161730

Status : Not Answered

Chosen Option : --

**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 : 816161752

Status : Answered

Chosen Option : 1

**Q.18** Arrange the following words in a logical and meaningful order.

1. Acre
2. Square Yard
3. Square Inch
4. Hectare
5. Square Feet

Ans

✗ 1. 3-5-1-2-4

✗ 2. 3-5-2-4-1

✗ 3. 3-5-1-4-2

✓ 4. 3-5-2-1-4

Question ID : 816161731

Status : Answered

Chosen Option : 4





**Q.22** Select the option in which the words share the same relationship as that shared by the given pair of words.

Horses : Neigh

- Ans
- ☒ 1. Bears : Roar
  - ☒ 2. Donkeys : Chortle
  - ☒ 3. Camels : Grunt
  - ☒ 4. Elephants : Whine

Question ID : 816161735

Status : Not Answered

Chosen Option : --

**Q.23** Select the letter-cluster that can replace the question mark (?) in the following series.

ABDE, FGJH, ?, PQST, UVXY

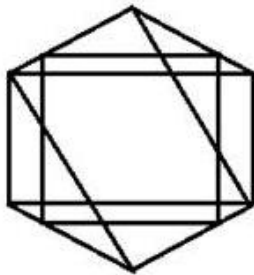
- Ans
- ☒ 1. KLMO
  - ☒ 2. KLNO
  - ☒ 3. KLMN
  - ☒ 4. KLNP

Question ID : 816161738

Status : Answered

Chosen Option : 2

**Q.24** How many triangles are there in the given figure?



- Ans
- ☒ 1. 29
  - ☒ 2. 31
  - ☒ 3. 21
  - ☒ 4. 19

Question ID : 816161749

Status : Answered

Chosen Option : 4

**Q.25** 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 laptops are computers.
2. Some tablets are laptops.

**Conclusions:**

- I. All tablets are computers.
- II. Some tablets are computers.
- III. Some computers are laptops.

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

Question ID : 816161740  
Status : Answered  
Chosen Option : 2

Section : General Awareness

**Q.1** Who among the following scholars is associated with the Tibet-home theory of the Aryans?

- Ans**
- ☒ 1. Dayanand Saraswati
  - ☒ 2. Bal Gangadhar Tilak
  - ☒ 3. MacDonell
  - ☒ 4. Max Muller

Question ID : 816161768  
Status : Answered  
Chosen Option : 4

**Q.2** The Mission of the Ramsar Convention is to conserve \_\_\_\_\_.

- Ans**
- ☒ 1. wetlands
  - ☒ 2. rivers
  - ☒ 3. oceans
  - ☒ 4. deserts

Question ID : 816161766  
Status : Answered  
Chosen Option : 1

**Q.3** Which of the following states does NOT share its boundary with Madhya Pradesh?

- Ans**
- ☒ 1. Odisha
  - ☒ 2. Uttar Pradesh
  - ☒ 3. Gujarat
  - ☒ 4. Rajasthan

Question ID : 816161764  
Status : Answered  
Chosen Option : 4

**Q.4 What is the velocity of sound in air?**

- Ans ☒ 1. 343 m/sec  
☒ 2. 110 m/sec  
☒ 3. 220 m/sec  
☒ 4. 232 m/sec

Question ID : **816161760**  
Status : **Answered**  
Chosen Option : 1

**Q.5 In the context of UN Sustainable Development Goals, which of the following pairs is INCORRECT?**

- Ans ☒ 1. Zero Hunger – SDG 2  
☒ 2. Quality Education – SDG 3  
☒ 3. No Poverty – SDG 1  
☒ 4. Decent Work and Economic Growth – SDG 8

Question ID : **816161758**  
Status : **Answered**  
Chosen Option : 3

**Q.6 With reference to dances and their native states, which of the following pairs is correct?**

- Ans ☒ 1. Yakshagana – Karnataka  
☒ 2. Sattariya – Manipur  
☒ 3. Kalaripayattu – Karnataka  
☒ 4. Gomira – Uttar Pradesh

Question ID : **816161756**  
Status : **Answered**  
Chosen Option : 1

**Q.7 Name the densest stable element known on earth.**

- Ans ☒ 1. Osmium  
☒ 2. Rhodium  
☒ 3. Aluminium  
☒ 4. Tungsten

Question ID : **816161763**  
Status : **Answered**  
Chosen Option : 3

**Q.8 What does 'A' stand for in 'UDAN', the initiative of the Civil Aviation Ministry?**

- Ans ☒ 1. Aam  
☒ 2. Aastha  
☒ 3. Aviation  
☒ 4. Air

Question ID : **816161777**  
Status : **Answered**  
Chosen Option : 1

**Q.9 Which team won the Federation Cup Football Tournament for the most number of times?**

- Ans ☒ 1. Mohun Bagan AC  
☐ 2. Salgaocar SC  
☐ 3. East Bengal FC  
☐ 4. Bengaluru FC

Question ID : **816161776**  
Status : **Answered**  
Chosen Option : **1**

**Q.10 How many carbon and hydrogen atoms are there in Propane, respectively?**

- Ans ☐ 1. 2, 4  
☐ 2. 2, 6  
☐ 3. 4, 7  
☒ 4. 3, 8

Question ID : **816161762**  
Status : **Answered**  
Chosen Option : **4**

**Q.11 Who appoints the Advocate General of states?**

- Ans ☐ 1. President of India  
☐ 2. Chief Minister of the state  
☐ 3. Chief Justice of the high court  
☒ 4. Governor of the state

Question ID : **816161774**  
Status : **Answered**  
Chosen Option : **4**

**Q.12 In which state The Jaugada Rock Edict of Asoka is located?**

- Ans ☐ 1. Uttarakhand  
☒ 2. Odisha  
☐ 3. Gujarat  
☐ 4. Andhra Pradesh

Question ID : **816161767**  
Status : **Answered**  
Chosen Option : **2**

**Q.13 The Swaraj Party was founded by:**

- Ans ☐ 1. Bhimrao Ambedkar and Sardar Vallabhbhai Patel  
☒ 2. Motilal Nehru and Chittaranjan Das  
☐ 3. Sukhdev and Rajguru  
☐ 4. Aruna Asaf Ali and Subhash Chandra Bose

Question ID : **816161770**  
Status : **Answered**  
Chosen Option : **2**

Q.14 What is the bond angle (in degrees) in the structure of a benzene molecule?

- Ans
- ☒ 1. 60
  - ☒ 2. 150
  - ☒ 3. 90
  - ☒ 4. 120

Question ID : 816161761  
Status : Answered  
Chosen Option : 1

Q.15 Which of the following is the outermost solid part of the Earth?

- Ans
- ☒ 1. Crust
  - ☒ 2. Core
  - ☒ 3. Mantle
  - ☒ 4. Caldera

Question ID : 816161765  
Status : Answered  
Chosen Option : 3

Q.16 On which date is National Sports Day observed in India?

- Ans
- ☒ 1. 17th September
  - ☒ 2. 4th May
  - ☒ 3. 29th August
  - ☒ 4. 5th July

Question ID : 816161775  
Status : Answered  
Chosen Option : 3

Q.17 Which company recently became the 1st Indian company to hit the ₹10 Lakh Crore market valuations?

- Ans
- ☒ 1. Reliance
  - ☒ 2. BSNL
  - ☒ 3. Jio
  - ☒ 4. Airtel

Question ID : 816161778  
Status : Answered  
Chosen Option : 1

Q.18 In 2018, who among the following came to the limelight by building a people's road through crowd funding that helped in connecting remote villages of Manipur?

- Ans
- ☒ 1. Irom Sharmila
  - ☒ 2. Mary Kom
  - ☒ 3. Dingo Singh
  - ☒ 4. Armstrong Pame

Question ID : 816161772  
Status : Answered  
Chosen Option : 2

Q.19 As of January 2020, the Make in India program was implemented by the \_\_\_\_\_.

- Ans
- ☒ 1. Ministry of Heavy Industries and Public Enterprises
  - ☒ 2. Ministry of Commerce and Industry
  - ☒ 3. Ministry of Shipping
  - ☒ 4. Ministry of Science and Technology

Question ID : 816161757  
Status : Answered  
Chosen Option : 2

Q.20 According to the Jain Philosophy, the term 'Jina' means \_\_\_\_\_.

- Ans
- ☒ 1. lord
  - ☒ 2. free from fetters
  - ☒ 3. worthy
  - ☒ 4. the conqueror

Question ID : 816161769  
Status : Answered  
Chosen Option : 4

Q.21 Which among the following heritage buildings does NOT figure among those which were dedicated to the nation by the PM Narendra Modi in during his two-day visit to West Bengal in January 2020?

- Ans
- ☒ 1. Metcalfe House
  - ☒ 2. Old Currency Building
  - ☒ 3. Victoria Memorial Hall
  - ☒ 4. Belur Math Temple

Question ID : 816161779  
Status : Answered  
Chosen Option : 3

Q.22 Which of the following animals does NOT find a place in the National Emblem of India?

- Ans
- ☒ 1. Lion
  - ☒ 2. Bull
  - ☒ 3. Camel
  - ☒ 4. Horse

Question ID : 816161755  
Status : Answered  
Chosen Option : 2

Q.23 'Torr' is a unit of \_\_\_\_\_.

- Ans
- ☒ 1. force
  - ☒ 2. energy
  - ☒ 3. power
  - ☒ 4. pressure

Question ID : 816161759  
Status : Answered  
Chosen Option : 4

Q.24 The 'Great Indian Novel' is authored by:

- Ans
- ☐ 1. Arvind Adiga
  - ☐ 2. Chitra Banerjee
  - ☐ 3. Vikram Seth
  - ☒ 4. Shashi Tharoor

Question ID : 816161771

Status : Answered

Chosen Option : 3

Q.25 As of January 2020, who among the following is the Lt. Governor of Jammu and Kashmir?

- Ans
- ☐ 1. Jagdish Mukhi
  - ☐ 2. Lalji Tandon
  - ☒ 3. Girish Chandra Murmu
  - ☐ 4. Satyapal Malik

Question ID : 816161773

Status : Answered

Chosen Option : 3

Section : Quantitative Aptitude

Q.1 In a stream running at 3 km/h, a motorboat goes 12 km upstream and back to the starting point in 60 min. Find the speed of the motorboat in still water. (in km/h)

- Ans
- ☐ 1.  $2(2 + \sqrt{17})$
  - ☐ 2.  $3(2 + \sqrt{17})$
  - ☐ 3.  $2(4 + \sqrt{15})$
  - ☒ 4.  $3(4 + \sqrt{17})$

Question ID : 816161789

Status : Answered

Chosen Option : 4

Q.2 Find the product of  $(a + b + 2c)(a^2 + b^2 + 4c^2 - ab - 2bc - 2ca)$ .

- Ans
- ☐ 1.  $a^3 + b^3 + 8c^3 - 2abc$
  - ☐ 2.  $a^3 + b^3 + 8c^3 - abc$
  - ☐ 3.  $a^3 + b^3 + 6c^3 - 6abc$
  - ☒ 4.  $a^3 + b^3 + 8c^3 - 6abc$

Question ID : 816161792

Status : Not Answered

Chosen Option : --

Q.3 What is the remainder when we divide  $5^{70} + 7^{70}$  by 74?

- Ans
- ☒ 1. 5
  - ☒ 2. 0
  - ☒ 3. 7
  - ☒ 4. 1

Question ID : 816161780  
Status : Not Answered  
Chosen Option : --

Q.4 What is the area of a triangle whose sides are 3 cm, 5 cm and 4 cm?

- Ans
- ☒ 1.  $3 \text{ cm}^2$
  - ☒ 2.  $2\sqrt{6} \text{ cm}^2$
  - ☒ 3.  $6 \text{ cm}^2$
  - ☒ 4.  $2\sqrt{3} \text{ cm}^2$

Question ID : 816161790  
Status : Answered  
Chosen Option : 3

Q.5 A man sold two gifts at ₹30 each. On one gift he gained 18%, and on the other gift he lost 18%. What is his overall gain/loss (in ₹)?

- Ans
- ☒ 1. Gain of ₹1.75
  - ☒ 2. Loss of ₹2.00
  - ☒ 3. Loss of ₹2.50
  - ☒ 4. Gain of ₹2.00

Question ID : 816161785  
Status : Not Answered  
Chosen Option : --

Q.6 By what number must the given number be multiplied to increase the number by 25%.

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

Question ID : 816161784  
Status : Answered  
Chosen Option : 2



**Q.7** In  $\triangle ABC$ , D is a point on BC such that AD is the bisector of  $\angle A$ ,  $AB = 11.7$  cm,  $AC = 7.8$  cm and  $BC = 13$  cm. What is the length (in cm) of DC?

- Ans**
- ☒ 1. 5.2
  - ☐ 2. 6.5
  - ☐ 3. 7.8
  - ☐ 4. 5.6

Question ID : **816161797**  
Status : **Not Answered**  
Chosen Option : --

**Q.8** The length of each equal side of an isosceles triangle is 15 cm and the included angle between those two sides is  $90^\circ$ . Find the area of the triangle.

- Ans**
- ☐ 1.  $225 \text{ cm}^2$
  - ☐ 2.  $\frac{255}{2} \text{ cm}^2$
  - ☐ 3.  $\frac{125}{2} \text{ cm}^2$
  - ☒ 4.  $\frac{225}{2} \text{ cm}^2$

Question ID : **816161796**  
Status : **Answered**  
Chosen Option : 4

**Q.9** A trader marks his goods at 60% above the cost price and allows a discount of 25%. What is his gain percent?

- Ans**
- ☒ 1. 20%
  - ☐ 2. 25%
  - ☐ 3. 30%
  - ☐ 4. 40%


Question ID : **816161783**  
Status : **Answered**  
Chosen Option : 1


**Q.10** The following table shows the percentage distribution of the population of five states, A, B, C, D and E on the basis of the poverty line and also on the basis of sex.


State	Percentage of population below the poverty line	Proportion of Males and Females	
		Below poverty line	Above poverty line
		Males: Females	Males: Females
A	15	5:3	4:3
B	25	1:2	2:3
C	19	3:2	4:5
D	35	1:2	2:3
E	24	3:5	6:7


If the male population above the poverty line for State B is 2.5 million, then what is the total population of State B?

Ans

 1.  $8\frac{2}{3}$  million

 2.  $7\frac{2}{3}$  million

 3.  $8\frac{1}{2}$  million

 4.  $10\frac{5}{3}$  million


Question ID : 816161803


Status : Not Answered


Chosen Option : --


**Q.11** If  $\cot\theta + \tan\theta = 2\sec\theta$ ,  $0^\circ < \theta < 90^\circ$ , then the value of  $\frac{\tan 2\theta - \sec\theta}{\cot 2\theta + \csc\theta}$  is:

Ans

 1.  $\frac{2\sqrt{3}-1}{5}$

 2.  $\frac{3-\sqrt{2}}{5}$

 3.  $\frac{2\sqrt{3}-1}{11}$

 4.  $\frac{3-\sqrt{2}}{11}$

Question ID : 816161798


Status : Not Answered


Chosen Option : --

**Q.12** The total number of students in a class is 65. If the total number of girls in the class is 35, then the ratio of the total number of boys to the total number of girls is:

Ans

 1. 6 : 7

 2. 7 : 6

 3. 13 : 7

 4. 7 : 13

Question ID : 816161786

Status : Answered

Chosen Option : 1

**Q.13** The following table shows the percentage distribution of the population of five states, A, B, C, D and E on the basis of the poverty line and also on the basis of sex.

State	Percentage of population below the poverty line	Proportion of Males and Females	
		Below poverty line	Above poverty line
		Males: Females	Males: Females
A	15	5:3	4:3
B	25	1:2	2:3
C	19	3:2	4:5
D	35	1:2	2:3
E	24	3:5	6:7

If the population of males below the poverty line for State C is 3 million, then what is the total population of State C?

- Ans
- ☒ 1. 23.361 million
  - ☒ 2. 25.617 million
  - ☒ 3. 26.316 million
  - ☒ 4. 24.486 million

Question ID : 816161804

Status : Not Answered

Chosen Option : --

**Q.14** The following table shows the items of expenditure of a company (in ₹ lakh per annum), from 2015 to 2019.

Year	Salary	Fuel and transport	Bonus	Interest on loans	taxes
2019	250	90	5	23.5	80
2018	350	110	2.5	30	110
2017	325	100	3.5	40	70
2016	300	125	4	35	90
2015	400	140	3	45	100

What is the average amount of interest per year which the company had to pay during this period?

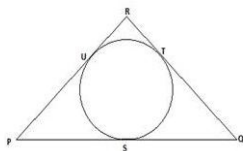
- Ans
- ☒ 1. ₹ 30.7 lakh
  - ☒ 2. ₹ 35 lakh
  - ☒ 3. ₹ 25 lakh
  - ☒ 4. ₹ 34.7 lakh

Question ID : 816161801

Status : Not Answered

Chosen Option : --

**Q.15** In the given figure, a circle inscribed in  $\triangle PQR$  touches its sides PQ, QR and RP at points S, T and U, respectively. If PQ = 15 cm, QR = 10 cm, and RP = 12 cm, then find the lengths of PS, QT and RU?



- Ans
- ☒ 1. PS = 8.5 cm, QT = 3.5 cm and RU = 6.5 cm
  - ☒ 2. PS = 8.5 cm, QT = 6.5 cm and RU = 3.5 cm
  - ☒ 3. PS = 6.5 cm, QT = 8.5 cm and RU = 3.5 cm
  - ☒ 4. PS = 3.5 cm, QT = 6.5 cm and RU = 8.5 cm

Question ID : 816161795

Status : Not Answered

Chosen Option : --

**Q.16** When two equal amounts are deposited for 5 years and 3 years at the rate of 7% and 9% per annum respectively, and the difference of their simple interest is ₹475. Then find the deposited amount.

- Ans**
- ☒ 1. ₹5,937.5
  - ☐ 2. ₹5,992.5
  - ☐ 3. ₹5,837.5
  - ☐ 4. ₹6,037.5

Question ID : 816161787  
Status : Not Answered  
Chosen Option : --

**Q.17**  $25a^2 - 9$  is factored as:

- Ans**
- ☒ 1.  $(5a + 3)(5a - 3)$
  - ☐ 2.  $(5a + 1)(5a - 9)$
  - ☐ 3.  $(5a - 3)^2$
  - ☐ 4.  $(25a + 1)(a - 9)$

Question ID : 816161791  
Status : Not Answered  
Chosen Option : --

**Q.18** Solve the following.

$$\left(\frac{\sin 27^\circ}{\cos 63^\circ}\right) - \left(\frac{\cos 27^\circ}{\sin 63^\circ}\right)^2$$

- Ans**
- ☐ 1. 2
  - ☒ 2. 0
  - ☐ 3. -1
  - ☐ 4. 1

Question ID : 816161799  
Status : Not Answered  
Chosen Option : --

**Q.19** Solve the following expression.

$$5.6 - \{2 + 0.6 \text{ of } (2.1 - 2.6 \times 1.12)\}$$

- Ans**
- ☐ 1. 7.7112
  - ☐ 2. 7.7113
  - ☐ 3. 4.0871
  - ☒ 4. 4.0872

Question ID : 816161781  
Status : Not Answered  
Chosen Option : --

**Q.20** The average score in Mathematics of 90 students of sections A and B together is 49. The number of students in A was 25% more than that of B, and the average score of the students in B was 20% higher than that of the students in A. What is the average score of the students in A?

- Ans
- ☒ 1. 44.5
  - ☒ 2. 45
  - ☒ 3. 44
  - ☒ 4. 45.5

Question ID : 816161782

Status : Not Answered

Chosen Option : --

**Q.21** Find the area and circumference of a circle if the radius is 14 cm. (Take  $\pi = \frac{22}{7}$ )

- Ans
- ☒ 1. Area = 44 cm<sup>2</sup>; Circumference = 308 cm
  - ☒ 2. Area = 616 cm<sup>2</sup>; Circumference = 88 cm
  - ☒ 3. Area = 88 cm<sup>2</sup>; Circumference = 616 cm
  - ☒ 4. Area = 308 cm<sup>2</sup>; Circumference = 44 cm

Question ID : 816161794

Status : Not Answered

Chosen Option : --

**Q.22** If  $5 \cos^2 \theta + 1 = 3 \sin^2 \theta$ ,  $0^\circ < \theta < 90^\circ$ , then what is the value of  $\frac{\tan \theta + \sec \theta}{\cot \theta + \operatorname{cosec} \theta}$ ?

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

Question ID : 816161800

Status : Not Answered

Chosen Option : --

**Q.23** A can do a piece of work in 6 days. B can do it in 9 days. With the assistance of C they completed the work in 3 days. In how many days can C alone do the work?

- Ans
- ☒ 1. 18
  - ☒ 2. 8
  - ☒ 3. 12
  - ☒ 4. 16


Question ID : 816161788


Status : Not Answered


Chosen Option : --


**Q.24** If  $a^4 + \frac{1}{a^4} = 50$ ,  $a > 0$ , then find the value of  $a^3 + \frac{1}{a^3}$ .

**Ans**

 1.  $\sqrt{2(1 + \sqrt{13})} + (-1 + 2\sqrt{13})$

 2.  $\sqrt{2(1 + \sqrt{13})}(-1 - 2\sqrt{13})$

 3.  $\sqrt{2(1 + \sqrt{13})}(-1 + 2\sqrt{13})$

 4.  $\sqrt{2(1 - \sqrt{13})}(-1 + 2\sqrt{13})$

Question ID : 816161793

Status : Not Answered


Chosen Option : --

**Q.25** The following table showing the percentage of the total population of a state in different age groups.


Age group (in years)	Population (in percentage)
0-15	31
15-25	5.25
25-35	14.25
35-45	14.50
45-55	17.25
55 & above	17.75
Total	100


Out of every 50,000 people, find the approximate number of persons below the age of 35.

**Ans**

 1. 25,250

 2. 25,230

 3. 26,250

 4. 26,260

Question ID : 816161802

Status : Not Answered

Chosen Option : --


#### Section : English Comprehension


**Q.1** Select the most appropriate **ANTONYM** of the given word.


**Malice**

**Ans**

 1. Goodwill

 2. Truth

 3. Hypocrisy

 4. Humility

Question ID : 816161822

Status : Answered

Chosen Option : 2

**Q.2 Select the most appropriate ANTONYM of the given word.**

**Foul**

- Ans
- ☒ 1. Proud
  - ☒ 2. Vile
  - ☒ 3. Nasty
  - ☒ 4. Fair

Question ID : 816161821

Status : Not Answered

Chosen Option : --

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

- Ans
- ☒ 1. Fifty
  - ☒ 2. Eighty
  - ☒ 3. Ninety
  - ☒ 4. Fourty

Question ID : 816161827

Status : Answered

Chosen Option : 1

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

**Cut and dried**

- Ans
- ☒ 1. Dead and gone
  - ☒ 2. Already decided
  - ☒ 3. Very old
  - ☒ 4. Badly hurt

Question ID : 816161824

Status : Answered

Chosen Option : 2

**Q.5 Select the correct passive form of the given sentence.**

**She is teaching French to children.**

- Ans
- ☒ 1. Children were taught French by her.
  - ☒ 2. Children are taught French by her.
  - ☒ 3. Children have been taught French by her.
  - ☒ 4. Children are being taught French by her.

Question ID : 816161807

Status : Answered

Chosen Option : 4



**Q.6** Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

I do not see some reasons why my application should be rejected.

- Ans ☒ 1. any reason why  
☐ 2. many reasons so  
☐ 3. some reason for  
☐ 4. No improvement

Question ID : 816161809

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.

The Matryoshka doll is also called the Russian nesting doll. It is a set (1)\_\_\_\_\_ wooden dolls decreasing in size and (2)\_\_\_\_\_ inside one another. The first such set (3)\_\_\_\_\_ in 1890. The figures inside may be of (4)\_\_\_\_\_ gender. The smallest doll is the baby, made from (5)\_\_\_\_\_ single piece of wood.

**SubQuestion No : 7**

**Q.7** Select the most appropriate option to fill in blank number (1).

- Ans ☐ 1. for  
☒ 2. of  
☐ 3. in  
☐ 4. by

Question ID : 816161812

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.

The Matryoshka doll is also called the Russian nesting doll. It is a set (1)\_\_\_\_\_ wooden dolls decreasing in size and (2)\_\_\_\_\_ inside one another. The first such set (3)\_\_\_\_\_ in 1890. The figures inside may be of (4)\_\_\_\_\_ gender. The smallest doll is the baby, made from (5)\_\_\_\_\_ single piece of wood.

**SubQuestion No : 8**

**Q.8** Select the most appropriate option to fill in blank number (2).

- Ans ☐ 1. occupied  
☒ 2. placed  
☐ 3. situated  
☐ 4. located

Question ID : 816161813

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.

The Matryoshka doll is also called the Russian nesting doll. It is a set (1)\_\_\_\_\_ wooden dolls decreasing in size and (2)\_\_\_\_\_ inside one another. The first such set (3)\_\_\_\_\_ in 1890. The figures inside may be of (4)\_\_\_\_\_ gender. The smallest doll is the baby, made from (5)\_\_\_\_\_ single piece of wood.

**SubQuestion No : 9**

**Q.9** Select the most appropriate option to fill in blank number (3).

- Ans
- ☒ 1. is made
  - ☒ 2. made
  - ☒ 3. has been made
  - ☒ 4. was made

Question ID : 816161814

Status : Answered

Chosen Option : 4

**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.

The Matryoshka doll is also called the Russian nesting doll. It is a set (1)\_\_\_\_\_ wooden dolls decreasing in size and (2)\_\_\_\_\_ inside one another. The first such set (3)\_\_\_\_\_ in 1890. The figures inside may be of (4)\_\_\_\_\_ gender. The smallest doll is the baby, made from (5)\_\_\_\_\_ single piece of wood.

**SubQuestion No : 10**

**Q.10** Select the most appropriate option to fill in blank number (4).

- Ans
- ☒ 1. neither
  - ☒ 2. every
  - ☒ 3. some
  - ☒ 4. either

Question ID : 816161815

Status : Answered

Chosen Option : 4

**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.

The Matryoshka doll is also called the Russian nesting doll. It is a set (1)\_\_\_\_\_ wooden dolls decreasing in size and (2)\_\_\_\_\_ inside one another. The first such set (3)\_\_\_\_\_ in 1890. The figures inside may be of (4)\_\_\_\_\_ gender. The smallest doll is the baby, made from (5)\_\_\_\_\_ single piece of wood.

**SubQuestion No : 11**

**Q.11** Select the most appropriate option to fill in blank number (5).

- Ans
- ☒ 1. the
  - ☒ 2. an
  - ☒ 3. each
  - ☒ 4. a

Question ID : 816161816

Status : Answered

Chosen Option : 4

Q.12 Select the most appropriate synonym of the given word.

Thrive

- Ans  1. Shrink  
 2. Flourish  
 3. Crave  
 4. Languish





Question ID : 816161820

Status : Not Answered

Chosen Option : --

Q.13 Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

- A. While the long thin ones are most common, there are many other varieties.  
B. Noodles are the staple food in many cultures across the world.  
C. They are then served with a sauce or in soup.  
D. However, all varieties are usually cooked in boiling water.

- Ans  1. BADC  
 2. BCAD  
 3. BCDA  
 4. BDAC





Question ID : 816161817

Status : Answered

Chosen Option : 4

Q.14 Select the correct indirect form of the given sentence.

The Principal has said, "Mr. Surinder will coach the football team."

- Ans  1. The Principal has asked that will Mr. Surinder coach the football team.  
 2. The Principal has said that Mr. Surinder would coach the football team.  
 3. The Principal said that Mr. Surinder would coach the football team.  
 4. The Principal has said that Mr. Surinder will coach the football team.

Question ID : 816161808

Status : Answered

Chosen Option : 4

Q.15 Select the word which means the same as the group of words given.

To rise in value

- Ans  1. Extend  
 2. Appreciate  
 3. Enlarge  
 4. Depreciate

Question ID : 816161825

Status : Answered

Chosen Option : 2

Q.16 Select the INCORRECTLY spelt word.

- Ans
- ☒ 1. Committee
  - ☒ 2. Colleague
  - ☒ 3. Commission
  - ☒ 4. Corresspond

Question ID : 816161828  
Status : Answered  
Chosen Option : 2

Q.17 Select the most appropriate synonym of the given word.

Assault

- Ans
- ☒ 1. Anger
  - ☒ 2. Alibi
  - ☒ 3. Anxiety
  - ☒ 4. Attack

Question ID : 816161819  
Status : Answered  
Chosen Option : 4

Q.18 Fill in the blank with the most appropriate word.

Beautiful red roses \_\_\_\_\_ the bride's hair.

- Ans
- ☒ 1. adorned
  - ☒ 2. allured
  - ☒ 3. attracted
  - ☒ 4. adjourned

Question ID : 816161830  
Status : Answered  
Chosen Option : 1

Q.19 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

Having being warn before, he did not repeat the mistake.

- Ans
- ☒ 1. been warned before
  - ☒ 2. being warned before
  - ☒ 3. be warned before
  - ☒ 4. No improvement

Question ID : 816161810  
Status : Answered  
Chosen Option : 1

**Q.20** Identify the segment in the sentence which contains the grammatical error. If there is no error, select 'No error'

Plenty of information were given to me at the tourist office.

- Ans
- ☒ 1. at the tourist office
  - ☒ 2. No error
  - ☒ 3. Plenty of information
  - ☒ 4. were given to me

Question ID : 816161806  
Status : Answered  
Chosen Option : 3

**Q.21** Fill in the blank with the most appropriate word.

The speaker \_\_\_\_\_ the audience with his fine speech.

- Ans
- ☒ 1. expressed
  - ☒ 2. impressed
  - ☒ 3. depressed
  - ☒ 4. suppressed

Question ID : 816161829  
Status : Answered  
Chosen Option : 2

**Q.22** Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

- A. I found he was an old sailor and knew all the seafaring men in Bristol.
- B. So, I engaged him on the spot to be the ship's cook but he proved to be much more.
- C. He had lost his health ashore and wanted a berth as cook to get to the sea again.
- D. I was standing on the dock when by accident I fell in talk with a stranger.

- Ans
- ☒ 1. DACB
  - ☒ 2. DBAC
  - ☒ 3. BACD
  - ☒ 4. CBAD

Question ID : 816161818  
Status : Answered  
Chosen Option : 1

**Q.23** Select the word which means the same as the group of words given.

To brighten up with lights

- Ans
- ☒ 1. Illuminate
  - ☒ 2. Infuriate
  - ☒ 3. Elucidate
  - ☒ 4. Illustrate

Question ID : 816161826  
Status : Answered  
Chosen Option : 1

**Q.24** Select the most appropriate meaning of the underlined idiom in the given sentence.

The people were scared because the burglar was at large.

- Ans
- ☒ 1. very dangerous
  - ☒ 2. not caught
  - ☒ 3. very famous
  - ☒ 4. behind bars

Question ID : 816161823

Status : Answered

Chosen Option : 1

**Q.25** Identify the segment in the sentence which contains the grammatical error. If there is no error, select 'No error'

As a little child she was afraid from darkness.

- Ans
- ☒ 1. she was afraid
  - ☒ 2. from darkness
  - ☒ 3. As a little child
  - ☒ 4. No error

Question ID : 816161805

Status : Answered

Chosen Option : 2