

## Combined Graduate Level Examination 2020 Tier-I

Roll Number	
Candidate Name	
Venue Name	
Exam Date	20/08/2021
Exam Time	12:00 PM - 1:00 PM
Subject	Combined Graduate Level Examination 2020 Tier 1

Section : General Intelligence and Reasoning

**Q.1** Select the option in which the words share the same relationship as that shared by the given pair of words.

**Cat : Kitten**

- Ans**  1. Caw : Calf  
 2. Bee : Queen  
 3. Penguin : Fawn  
 4. Shark : Lamb

Question ID : 81616112712  
 Status : Answered  
 Chosen Option : 1

**Q.2** Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Relativial
2. Relation
3. Related
4. Relative
5. Relatable

- Ans**  1. 5, 3, 2, 4, 1  
 2. 5, 2, 3, 1, 4  
 3. 4, 5, 3, 2, 1  
 4. 5, 3, 2, 1, 4

Question ID : 81616112203  
 Status : Answered  
 Chosen Option : 4

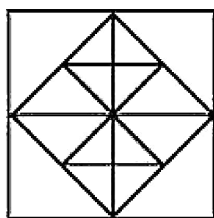
**Q.3** Select the option in which the numbers are related in the same way as are the numbers of the following set.

(4, 7, 359)

- Ans**  1. (10, 3, 172)  
 2. (5, 4, 98)  
 3. (3, 2, 71)  
 4. (6, 8, 548)

Question ID : 81616113429  
 Status : Not Answered  
 Chosen Option : --

Q.4 Find the number of triangles in the given figure.



- Ans
- 1. 26
  - 2. 30
  - 3. 32
  - 4. 28

Question ID : 81616113433

Status : Answered

Chosen Option : 4

Q.5 Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown.

PRESCRIPTION |  
P  
Q

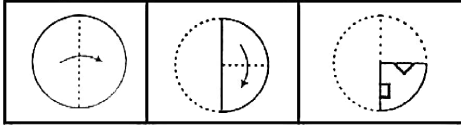
- Ans
- 1. PRESCRIPTION
  - 2. NOITPQRSERJ
  - 3. NOITPQRSERJ
  - 4. PRESCRIPTION

Question ID : 81616112729

Status : Answered

Chosen Option : 1

**Q.6** The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



**Ans**

- 1.
- 2.
- 3.
- 4.

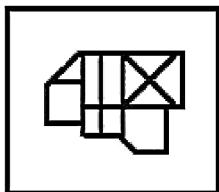
Question ID : 81616112730  
 Status : Answered  
 Chosen Option : 4

Q.7 Select the option figure in which the given figure is embedded (rotation is NOT allowed).

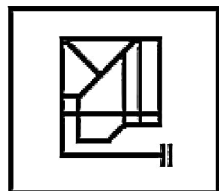


Ans

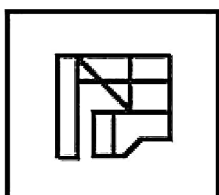
X 1.



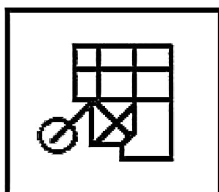
✓ 2.



X 3.



X 4.



Question ID : 81616112728

Status : Answered

Chosen Option : 2

Q.8 Select the option that is related to the fourth number in the same way as the first number is related to the second number and the fifth number is related to the sixth number.

8 : 24 :: ? : 52 :: 18 : 114

Ans

✓ 1. 12

X 2. 14

X 3. 20

X 4. 16

Question ID : 81616113527

Status : Not Answered

Chosen Option : --



**Q.9** Four words have been given, out of which three are alike in some manner and one is different. Select the word that is different.

- Ans**
- 1. Hinder
  - 2. Forbid
  - 3. Permit
  - 4. Impede

Question ID : 81616113417

Status : Answered

Chosen Option : 3

**Q.10** 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 follows from the statements.

**Statements:**

1. All fans are heaters.
2. Some coolers are fans.
3. All purifiers are coolers.

**Conclusions:**

- I. All purifiers are heaters.
- II. Some purifiers are heaters.
- III. Some heaters are coolers.
- IV. All coolers are heaters.

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

Question ID : 81616113525

Status : Answered

Chosen Option : 3

**Q.11** 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.

- Ans**
- 1. 797 : 679
  - 2. 373 : 255
  - 3. 727 : 609
  - 4. 191 : 177

Question ID : 81616113427

Status : Not Answered

Chosen Option : --

Q.12 Swati is the daughter of Anil's only sister Akshara. Anil's mother is Gouri. Kamini is Gouri's mother. Kamini's husband is Gaurav. Poonam is the mother-in-law of Gaurav. How is Swati related to Gaurav?

- Ans  1. Daughter  
 2. Great granddaughter  
 3. Granddaughter  
 4. Great granddaughter's daughter

Question ID : 81616112716  
 Status : Answered  
 Chosen Option : 3

Q.13 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

m\_tq\_ml\_qrm\_tq\_m\_t\_r

- Ans  1. l, r, t, l, r, l, q  
 2. l, l, q, r, l, r, t  
 3. l, q, r, l, l, r, t  
 4. l, t, r, l, l, r, q

Question ID : 81616112715  
 Status : Answered  
 Chosen Option : 1

Q.14 Study the given pattern carefully and select the number that can replace the question mark (?) in it.

7 35 13  
 9 24 14  
 13 120 ?

- Ans  1. 26  
 2. 28  
 3. 24  
 4. 20

Question ID : 81616113529  
 Status : Not Answered  
 Chosen Option : --

Q.15 In a certain code language, 'PRIVATE' is coded as '93236441540' and 'SHORTEN' is coded as '1615383652840'. How will 'REFUSAL' be coded in that language?

- Ans  1. 563642112438  
 2. 512362112438  
 3. 521361212438  
 4. 561842212219

Question ID : 81616113421  
 Status : Not Answered  
 Chosen Option : --

**Q.16** Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

DVG, ITM, NRS, SPY, ?

- Ans
- 1. WOE
  - 2. WNF
  - 3. XNE
  - 4. XOF

Question ID : 81616112707  
Status : Answered  
Chosen Option : 3

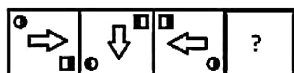
**Q.17** Select the option that is related to the third word in the same way as the second word is related to the first word.

Elated : Dejected :: Alleviate : ?

- Ans
- 1. Allay
  - 2. Aggravate
  - 3. Quiet
  - 4. Relieve

Question ID : 81616112206  
Status : Answered  
Chosen Option : 2

**Q.18** Select the figure from among the given options that can replace the question mark (?) in the following series.

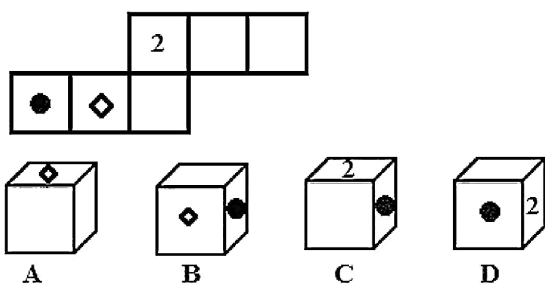


Ans

- 1.
- 2.
- 3.
- 4.

Question ID : 81616112220  
Status : Answered  
Chosen Option : 3

Q.19 Select the cube(s) that can be formed by folding the given sheet along the lines.



- Ans
- 1. Only A
  - 2. All A, B, C and D
  - 3. Only A, B and C
  - 4. Only B and D

Question ID : 81616113434

Status : Answered

Chosen Option : 2

Q.20 Select the number from among the given options that can replace the question mark (?) in the following series.

18, 3, 36, 6, 54, 9, ?

- Ans
- 1. 89
  - 2. 90
  - 3. 12
  - 4. 72

Question ID : 81616112213

Status : Answered

Chosen Option : 4

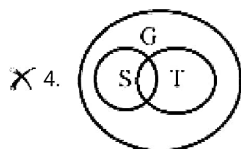
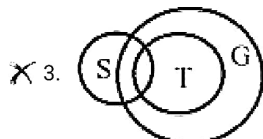
**Q.21** Read the given statements disregarding commonly known facts and then from the following four options, identify the Venn diagram that correctly represents the statements.

Statements:

Some stools (S) are tumblers(T)

Some tumblers (T) are grinders(G)

Ans



Question ID : 81616113539

Status : Answered

Chosen Option : 1

**Q.22** Select the correct combination of mathematical signs that can sequentially replace the \* signs and balance the equation.

$$221 * 17 * 12 * 130 * 24 * 50$$

Ans ✗ 1.  $\times, \div, -, +, =$

✗ 2.  $\div, \times, -, =, +$

✓ 3.  $\div, \times, -, +, =$

✗ 4.  $\div, -, \times, =, +$

Question ID : 81616113430

Status : Answered

Chosen Option : 3

**Q.23** Alekhya was born one year after her mother's marriage. Her father is two years elder than her mother but twenty five years older than Alekhya, who is six years old. At what age did the mother get married?

Ans ✓ 1. 22 years

✗ 2. 31 years

✗ 3. 25 years

✗ 4. 21 years

Question ID : 81616112724

Status : Answered

Chosen Option : 1

**Q.24** In a certain code language, 'INERTIA' is written as 'RGVKGBZ'. How will 'FLOWER' be written in that language?

- Ans**
- 1. VEMPUL
  - 2. UELPVK
  - 3. ULEVPK
  - 4. EVPMUL

Question ID : 81616113521  
Status : Answered  
Chosen Option : 2

**Q.25** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

- Ans**
- 1. GDAW
  - 2. PMJG
  - 3. SPMJ
  - 4. CZWT

Question ID : 81616112204  
Status : Answered  
Chosen Option : 1

Section : General Awareness

**Q.1** Which Indian has the record of maximum catches as a non-wicketkeeper in men's cricket test matches till February 2021?

- Ans**
- 1. Mohammad Azharuddin
  - 2. Rahul Dravid
  - 3. Ajay Jadeja
  - 4. Saurav Ganguly

Question ID : 81616112247  
Status : Answered  
Chosen Option : 3

**Q.2** Who among the following is the author of the book 'Abode of Love'?

- Ans**
- 1. Manmohan Singh
  - 2. APJ Abdul Kalam
  - 3. Narendra Modi
  - 4. Shankar Dayal Sharma

Question ID : 81616112243  
Status : Answered  
Chosen Option : 4

Q.3 Kala-azar disease is caused by \_\_\_\_\_.

- Ans  1. bacteria  
 2. protozoa  
 3. fungi  
 4. viruses

Question ID : 81616113544  
Status : Answered  
Chosen Option : 2

Q.4 Which of the following states does the capital of India, Delhi share its border with?

- Ans  1. Punjab  
 2. Haryana  
 3. Himachal Pradesh  
 4. Rajasthan

Question ID : 81616112742  
Status : Answered  
Chosen Option : 2

Q.5 Which of the following Indian banks launched contactless wearable payment devices called 'Wear N Pay' in March 2021?

- Ans  1. HDFC Bank  
 2. Axis Bank  
 3. Indus Ind Bank  
 4. ICICI Bank

Question ID : 81616113442  
Status : Not Answered  
Chosen Option : --

Q.6 With which of the following states is the 'Sao Joao' festival associated?

- Ans  1. Karnataka  
 2. Kerala  
 3. Tamil Nadu  
 4. Goa

Question ID : 81616113440  
Status : Answered  
Chosen Option : 4

Q.7 Glucagon, a peptide hormone, is produced by the \_\_\_\_\_.

- Ans  1. hypothalamus  
 2. pituitary glands  
 3. pancreas  
 4. adrenals

Question ID : 81616112740  
Status : Not Answered  
Chosen Option : --

**Q.8 Who among the following published a set of Ashokan inscriptions in the year 1877?**

- Ans**
- 1. DC Sircar
  - 2. Alexander Cunningham
  - 3. MS Vats
  - 4. Colin Mackenzie

Question ID : **81616113555**  
Status : **Not Answered**  
Chosen Option : --

**Q.9 A fuse protects an electric circuit from:**

- Ans**
- 1. converting one form of energy into other
  - 2. inducing current
  - 3. overloading
  - 4. carrying current

Question ID : **81616113547**  
Status : **Answered**  
Chosen Option : 3

**Q.10 India participated in the Petersberg Climate Dialogue 2020 hosted virtually by \_\_\_\_\_.**

- Ans**
- 1. Germany
  - 2. The US
  - 3. The UK
  - 4. France

Question ID : **81616112755**  
Status : **Answered**  
Chosen Option : 1

**Q.11 Which of the following is a State party as of February 2021?**

- Ans**
- 1. Bahujan Samaj Party
  - 2. Aam Aadmi Party
  - 3. Communist Party of India
  - 4. Trinamool Congress

Question ID : **81616112751**  
Status : **Answered**  
Chosen Option : 2

**Q.12 Which of the following is a characteristic of human wants in terms of economics?**

- Ans**
- 1. Wants are satiable.
  - 2. Wants are not competitive.
  - 3. Wants are limited.
  - 4. Wants do not become habits.

Question ID : **81616112734**  
Status : **Answered**  
Chosen Option : 1



**Q.13** Which of the following states will have India's first lithium-ion battery manufacturing plant, expected to become operational by 2021?

- Ans**
- 1. Maharashtra
  - 2. Karnataka
  - 3. Kerala
  - 4. Gujarat

Question ID : 81616112251  
Status : Answered  
Chosen Option : 4

**Q.14** Which of the following Amendment Acts of the Constitution of India conferred statehood to Goa and formed a new union territory comprising of Daman and Diu?

- Ans**
- 1. 56th Amendment Act
  - 2. 23rd Amendment Act
  - 3. 67th Amendment Act
  - 4. 45th Amendment Act

Question ID : 81616113457  
Status : Answered  
Chosen Option : 2

**Q.15** Who among the following was the first Indian to win a seat in the House of Commons?

- Ans**
- 1. Dadabhai Naoroji
  - 2. WC Bonnerjee
  - 3. Hasrat Mohani
  - 4. MN Roy

Question ID : 81616112746  
Status : Answered  
Chosen Option : 1

**Q.16** Which of the following states became the first state to provide a tap water connection to every rural household in October 2020?

- Ans**
- 1. Bihar
  - 2. Goa
  - 3. West Bengal
  - 4. Sikkim

Question ID : 81616113445  
Status : Answered  
Chosen Option : 1

Q.17 Nathu La Pass connects India with which of its neighbouring countries?

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

Question ID : 81616113448  
Status : Answered  
Chosen Option : 4

Q.18 Who among the following won the men's singles title at the Toyota Thailand Open badminton tournament in January 2021?

- Ans
- 1. Kidambi Srikanth
  - 2. Rasmus Gemke
  - 3. Viktor Axelsen
  - 4. Hans-Kristian Solberg Vittinghus

Question ID : 81616113561  
Status : Answered  
Chosen Option : 3

Q.19 In which of the following years was the Asiatic Society at Calcutta (Kolkata) founded by Sir William Jones?

- Ans
- 1. 1820
  - 2. 1800
  - 3. 1784
  - 4. 1767

Question ID : 81616113452  
Status : Answered  
Chosen Option : 3

Q.20 Who among the following was one of the leaders of the Santhal rebellion?

- Ans
- 1. Sidhu Manjhi
  - 2. BR Ambedkar
  - 3. Surya Sen
  - 4. Swami Vivekanand

Question ID : 81616113552  
Status : Answered  
Chosen Option : 1

Q.21 In which Indian state will you find the Kathiawar peninsula?

- Ans  1. Maharashtra  
 2. Mizoram  
 3. Gujarat  
 4. Rajasthan

Question ID : 81616112238  
Status : Not Answered  
Chosen Option : --

Q.22 In which of the following states are the Son Bhandar Caves located?

- Ans  1. Odisha  
 2. Uttar Pradesh  
 3. Assam  
 4. Bihar

Question ID : 81616113540  
Status : Not Answered  
Chosen Option : --

Q.23 Who among the following is the author of the book 'Inglorious Empire: What the British Did to India'?

- Ans  1. Ramchandra Guha  
 2. VS Naipaul  
 3. Ashwin Sanghi  
 4. Shashi Tharoor

Question ID : 81616112749  
Status : Answered  
Chosen Option : 4

Q.24 Collagen is a type of \_\_\_\_\_.

- Ans  1. fat  
 2. vitamin  
 3. protein  
 4. carbohydrate

Question ID : 81616112232  
Status : Answered  
Chosen Option : 3

**Q.25** Who among the following became India's youngest ever mayor in December 2020? The 21-year-old is currently serving as the mayor of Thiruvananthapuram Corporation.

- Ans**  1. Mira Aggarwal  
 2. Arya Rajendran  
 3. Chhavi Rajawat  
 4. Rajni Abbi

Question ID : **81616112249**  
 Status : **Answered**  
 Chosen Option : **2**

Section : Quantitative Aptitude

**Q.1** What is the sum of the digits of the largest five digit number which is divisible by 5, 35, 39 and 65?

- Ans**  1. 30  
 2. 33  
 3. 27  
 4. 35

Question ID : **81616113464**  
 Status : **Answered**  
 Chosen Option : **2**

**Q.2** Study the following table and answer the question:

Percentage of marks obtained by six students in five subjects A, B, C, D & E.

Subjects \ Students	Subjects				
	A (Out of 75)	B (Out of 80)	C (Out of 100)	D (Out of 50)	E (Out of 150)
Manju	68	85	86	72	92
Amit	64	65	80	96	80
Rekha	88	75	65	74	90
Anuj	80	55	68	66	84
Abhi	72	65	72	54	74
Vikram	60	70	73	84	86

The total marks obtained by Anuj in all the five subjects are ?

- Ans**  1. 331  
 2. 324  
 3. 303  
 4. 328

Question ID : **81616113890**  
 Status : **Answered**  
 Chosen Option : **1**

**Q.3** Points P and Q are on the sides AB and BC respectively of a triangle ABC, right angled at B. If  $AQ = 11$  cm,  $PC = 8$  cm, and  $AC = 13$  cm, then find the length (in cm) of PQ.

- Ans**
- 1.  $\sqrt{15}$
  - 2. 4.5
  - 3. 4
  - 4.  $4\sqrt{7}$

Question ID : 81616112774  
Status : Not Answered  
Chosen Option : --

**Q.4** A shopkeeper sold two items. The selling price of the first item equals the cost price of the second item. He sold the first item at a profit of 20% and the second item at a loss of 10%. What is his overall profit/loss percent?

- Ans**
- 1. Profit,  $3\frac{7}{11}\%$
  - 2. Loss,  $4\frac{6}{11}\%$
  - 3. Profit,  $4\frac{7}{11}\%$
  - 4. Loss,  $8\frac{1}{3}\%$

Question ID : 81616112257  
Status : Answered  
Chosen Option : 1

**Q.5** What price (in ₹) should Radha mark on a bag which costs ₹1680 so as to earn a profit of 25% after allowing a discount of 16% on the marked price?

- Ans**
- 1. 2800
  - 2. 2000
  - 3. 2100
  - 4. 2500

Question ID : 81616113568  
Status : Answered  
Chosen Option : 4

**Q.6** If  $\frac{x}{y} + \frac{y}{x} = 2$ , ( $x, y \neq 0$ ), then the value of  $(x - y)$  is :

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

Question ID : 81616112263  
Status : Answered  
Chosen Option : 2

- Q.7** The data given in the table shows the number of students studying in 4 different disciplines in 5 institutes. Study the table and answer the question:

Institutes	Arts	Science	Commerce	Computer Science
A	36	48	59	57
B	45	54	55	48
C	55	36	56	51
D	45	48	55	53
E	48	44	52	55

What is the ratio of number of students studying Science in institutes C and D taken together to the number of students studying Computer Science in institutes A and E taken together?

- Ans**
- 1. 41 : 56
  - 2. 43 : 56
  - 3. 42 : 55
  - 4. 3 : 4

Question ID : 81616112882  
Status : Answered  
Chosen Option : 1

- Q.8** Points A, D, C, B and E are concyclic. If  $\angle AEC = 50^\circ$  and  $\angle ABD = 30^\circ$ , then what is the measure (in degrees) of  $\angle CBD$ ?

- Ans**
- 1. 20
  - 2. 10
  - 3. 15
  - 4. 30

Question ID : 81616112771  
Status : Not Answered  
Chosen Option : --

- Q.9** If  $2\cos^2\theta - 5\cos\theta + 2 = 0, 0^\circ < \theta < 90^\circ$ , then the value of  $(\sec\theta + \tan\theta)$  is:

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

Question ID : 81616113282  
Status : Answered  
Chosen Option : 1

**Q.10** If  $(56\sqrt{7}x^3 - 2\sqrt{2}y^3) \div (2\sqrt{7}x - \sqrt{2}y) = Ax^2 + By^2 - Cxy$ , then find the value of  $A + B - \sqrt{14}C$ .

- Ans**
- 1. 38
  - 2. 10
  - 3. 19
  - 4. 58

Question ID : 81616113477  
 Status : Answered  
 Chosen Option : 4

**Q.11** The volume of a wall whose height is 10 times its width and whose length is 8 times its height is  $51.2 \text{ m}^3$ . What is the cost (in ₹) of painting the wall on one side at the rate of ₹100  $\text{m}^2$ ?

- Ans**
- 1. 12800
  - 2. 12750
  - 3. 12250
  - 4. 12500

Question ID : 81616112767  
 Status : Not Answered  
 Chosen Option : --

**Q.12** The ratio of monthly incomes of A and B is 4 : 5 and that of their monthly expenditures is 3 : 8. If the income of A is equal to the expenditure of B, then what is the ratio of savings of A and B?

- Ans**
- 1. 3 : 8
  - 2. 2 : 5
  - 3. 8 : 3
  - 4. 5 : 2

Question ID : 81616113571  
 Status : Answered  
 Chosen Option : 4

**Q.13** Two pipes A and B can fill an empty tank in 10 hours and 16 hours respectively. They are opened alternately for 1 hour each, opening pipe B first. In how many hours, will the empty tank be filled?

- Ans**
- 1.  $14\frac{2}{5}$
  - 2.  $16\frac{2}{5}$
  - 3.  $10\frac{2}{5}$
  - 4.  $12\frac{2}{5}$

Question ID : 81616113472  
 Status : Answered  
 Chosen Option : 4

Q.14 If  $\cot \theta = \frac{15}{8}$ ,  $\theta$  is an acute angle, then find the value of  $\frac{(1-\cos \theta)(2+2 \cos \theta)}{(2-2 \sin \theta)(1+\sin \theta)}$ .

- Ans
1.  $\frac{225}{64}$
2.  $\frac{64}{225}$
3.  $\frac{16}{15}$
4.  $\frac{8}{15}$

Question ID : 81616112474  
 Status : Answered  
 Chosen Option : 2

Q.15 The present population of a village is 15280. If the number of males increases by 25% and the number of females increases by 15%, then the population will become 18428. The difference between present population of males and females in the village is:

- Ans
1. 1840
2. 920
3. 2760
4. 1380

Question ID : 81616113468  
 Status : Answered  
 Chosen Option : 1

Q.16 Study the following table and answer the question:  
 Percentage of marks obtained by six students in five subjects A, B, C, D & E.

Students \ Subjects	Subjects				
	A (Out of 75)	B (Out of 80)	C (Out of 100)	D (Out of 50)	E (Out of 150)
Manju	68	85	86	72	92
Amit	64	65	80	96	80
Rekha	88	75	65	74	90
Anuj	80	55	68	66	84
Abhi	72	65	72	54	74
Vikram	60	70	73	84	86

The total marks obtained by Amit in subjects A, B and C is what percent less than the total marks obtained by Vikram in subjects B, C, D and E?

- Ans
1. 42
2. 35
3. 40
4. 38

Question ID : 81616113892  
 Status : Not Answered  
 Chosen Option : --



Q.17 Simplify the following expression:

$$15 \div 3 \text{ of } 2 \times 4 + 9 \div 18 \text{ of } 2 \times 3 - 4 \div 8 \times 2$$

Ans

1.  $12\frac{3}{4}$

2.  $39\frac{3}{4}$

3.  $42\frac{3}{4}$

4.  $9\frac{3}{4}$

Question ID : 81616112253

Status : Answered

Chosen Option : 4

Q.18 The table shows the daily income (in ₹) of 50 persons.

Study the table and answer the question:

Income (₹)	No. of persons
less than 200	12
less than 250	26
less than 300	34
less than 350	40
less than 400	50

What is the percentage of persons earning ₹250 or more?

Ans

1. 52

2. 68

3. 32

4. 48

Question ID : 81616112880

Status : Answered

Chosen Option : 4

Q.19 If  $\sqrt{x} - \frac{1}{\sqrt{x}} = \sqrt{7}$ , then the value of  $x^2 + \frac{1}{x^2}$  is:

- Ans
- 1. 81
  - 2. 60
  - 3. 79
  - 4. 75

Question ID : 81616113577  
 Status : Answered  
 Chosen Option : 3

Q.20 If  $\cos(2\theta + 54^\circ) = \sin\theta$ ,  $0^\circ < (2\theta + 54^\circ) < 90^\circ$ , then what is the value of  $\frac{1}{\cot 5\theta + \sec \frac{5\theta}{2}}$ ?

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

Question ID : 81616113482  
 Status : Answered  
 Chosen Option : 3

Q.21 The angles of a triangle are in AP (arithmetic progression). If measure of the smallest angle is  $50^\circ$  less than that of the largest angle, then find the largest angle (in degrees).

- Ans
- 1. 90
  - 2. 85
  - 3. 80
  - 4. 75

Question ID : 81616112268  
 Status : Answered  
 Chosen Option : 2

Q.22 The average monthly salary of 60 employees of a factory is ₹29900. If two officers are getting ₹90000 each and the average salary of 8 supervisors is ₹65000, then what is the average salary (in ₹) of the remaining employees?

- Ans
- 1. 22680
  - 2. 29080
  - 3. 21080
  - 4. 21880

Question ID : 81616112759  
 Status : Answered  
 Chosen Option : 4

**Q.23** Two circles of radii 18 cm and 16 cm intersect each other and the length of their common chord is 20 cm. What is the distance (in cm) between their centres?

- Ans**
- 1.  $4\sqrt{14} - 2\sqrt{39}$
  - 2.  $4\sqrt{10} - 2\sqrt{39}$
  - 3.  $4\sqrt{10} + 2\sqrt{39}$
  - 4.  $4\sqrt{14} + 2\sqrt{39}$

Question ID : 81616113479  
 Status : Not Answered  
 Chosen Option : --

**Q.24** The interest (in ₹) to be paid on a sum of ₹30000 at 15% p.a. after  $2\frac{2}{3}$  years, if interest compounded yearly, is:

- Ans**
- 1. 14362.50
  - 2. 12364.50
  - 3. 16342.50
  - 4. 13642.50

Question ID : 81616113471  
 Status : Answered  
 Chosen Option : 4

**Q.25** A boat can go 5 km upstream and  $7\frac{1}{2}$  km downstream in 45 minutes. It can also go 5 km downstream and 2.5 km upstream in 25 minutes. How much time (in minutes) will it take to go 6 km downstream?

- Ans**
- 1. 10
  - 2. 12
  - 3. 15
  - 4. 20

Question ID : 81616113574  
 Status : Answered  
 Chosen Option : 2

Section : English Comprehension

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

**A person preoccupied with an unrealistically optimistic approach to life**

- Ans**
- 1. Pragmatic
  - 2. Practical
  - 3. Rational
  - 4. Quixotic

Question ID : 81616113510  
 Status : Answered  
 Chosen Option : 4

Q.2 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

- A. He was in the habit of stealing food from others.
- B. One night, the villagers decided to teach him a lesson and kept only rotten food in their kitchen.
- C. The culprit ended up eating the rotten food and fell sick.
- D. Once upon a time, there lived a man in a village.

- Ans
- 1. DABC
  - 2. ABDC
  - 3. ACDB
  - 4. BACD

Question ID : 81616112289  
Status : Answered  
Chosen Option : 1

Q.3 Select the most appropriate synonym of the given word.

Commence

- Ans
- 1. Start
  - 2. Shoot
  - 3. Stand
  - 4. Stop

Question ID : 81616112796  
Status : Answered  
Chosen Option : 1

Q.4 Select the most appropriate option to fill in the blank.

Researchers have found that 16 facial expressions \_\_\_\_\_ universally in similar contexts across 12 world regions.

- Ans
- 1. occur
  - 2. strike
  - 3. transpire
  - 4. befall

Question ID : 81616113513  
Status : Answered  
Chosen Option : 1

Q.5 Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'.

Sunil have been working as a personal assistant to the Director for two years.

- Ans
- 1. is working
  - 2. has been worked
  - 3. No substitution
  - 4. has been working

Question ID : 81616113493  
Status : Answered  
Chosen Option : 2

**Q.6 Select the INCORRECTLY spelt word.**

- Ans**
- 1. Drought
  - 2. Doubt
  - 3. Dental
  - 4. Dictionary

Question ID : 81616112299  
Status : Answered  
Chosen Option : 4

**Q.7 Select the INCORRECTLY spelt word.**

- Ans**
- 1. Adequate
  - 2. Adamant
  - 3. Adviseable
  - 4. Alternate

Question ID : 81616112300  
Status : Answered  
Chosen Option : 3

**Q.8 Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'.**

The herd are grazing in the fields far away from the farmer's hut.

- Ans**
- 1. No substitution
  - 2. The herd has grazing
  - 3. The herd is grazing
  - 4. The herd is grazed

Question ID : 81616112787  
Status : Answered  
Chosen Option : 3

**Q.9 Select the most appropriate meaning of the following idiom.**

**To pay lip service**

- Ans**
- 1. To be insincere
  - 2. To make loud statements
  - 3. To talk out of turn
  - 4. To ask for permission

Question ID : 81616113609  
Status : Answered  
Chosen Option : 1

**Q.10** Select the option that can be used as a one-word substitute for the given group of words.

**One who supervises in an examination hall**

- Ans**  1. Verifier  
 2. Invigilator  
 3. Inspector  
 4. Manager

Question ID : 81616113509  
Status : Answered  
Chosen Option : 2

**Q.11** Select the most appropriate synonym of the given word.

**Principle**

- Ans**  1. Concrete  
 2. Headmaster  
 3. Leader  
 4. Axiom

Question ID : 81616112797  
Status : Marked For Review  
Chosen Option : 3

**Q.12** Select the most appropriate meaning of the following idiom.

**To get the ball rolling**

- Ans**  1. To play a ball game well  
 2. To begin a process  
 3. To match an opponent  
 4. To keep working until late

Question ID : 81616113608  
Status : Answered  
Chosen Option : 2

**Q.13** Select the option that expresses the given sentence in indirect speech.

**Kamal said, "I have done my work."**

- Ans**  1. Kamal said that I have done my work.  
 2. Kamal said I have done my work.  
 3. Kamal said that he has done his work.  
 4. Kamal said that he had done his work.

Question ID : 81616112785  
Status : Answered  
Chosen Option : 4

Q.14 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. Indeed, polymers such as regenerated cellulose, which have become familiar household materials under the trade names rayon and nylon, are also made into numerous non-fibre products, ranging from cellophane envelope windows to clear plastic soft-drink bottles.

B. The chemical compounds from which man-made fibres are produced are known as polymers, a class of compounds characterised by long, chain-like molecules of great size and molecular weight.

C. As fibres, these materials are prized for their strength, toughness, resistance to heat and mildew, and ability to hold a pressed form.

D. Many of the polymers that constitute man-made fibres are the same as or similar to compounds that make up plastics, rubbers, adhesives and surface coatings.

- Ans
- 1. BDAC
  - 2. BCDA
  - 3. ACDB
  - 4. CBAD

Question ID : 81616113603

Status : Answered

Chosen Option : 2

Q.15 Select the most appropriate ANTONYM of the given word.

Censure

- Ans
- 1. Fault
  - 2. Applause
  - 3. Blunder
  - 4. Contempt

Question ID : 81616113607

Status : Answered

Chosen Option : 2

Q.16 Select the most appropriate option to fill in the blank.

The cabinet has \_\_\_\_\_ a proposal to change the way universities are funded and managed.

- Ans
- 1. endorsed
  - 2. endeared
  - 3. evaporated
  - 4. endangered

Question ID : 81616112807

Status : Answered

Chosen Option : 1

**Q.17** The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If there is no error, select 'No error' as your answer.

**My brother / who live in Pune / is arriving tomorrow.**

- Ans**
- 1. No error
  - 2. is arriving tomorrow
  - 3. who live in Pune
  - 4. My brother

Question ID : 81616113590  
Status : Answered  
Chosen Option : 3

**Q.18** The following sentence has been divided into parts. One of them contains an error. Select the part that contains the error from the given options.

**At the last meeting / which took place in November, / half the members submitted / their resignations on protest.**

- Ans**
- 1. which took place in November
  - 2. their resignations on protest
  - 3. At the last meeting
  - 4. half the members submitted

Question ID : 81616113490  
Status : Answered  
Chosen Option : 2

**Q.19** Select the most appropriate ANTONYM of the given word.

**Triumph**

- Ans**
- 1. Pride
  - 2. Celebration
  - 3. Joy
  - 4. Failure

Question ID : 81616112293  
Status : Answered  
Chosen Option : 4

**Q.20** Select the option that expresses the given sentence in passive voice.

**Shiva wrote a letter to the head of the HR Department in response to the advertisement.**

- Ans**
- 1. A letter was written by Shiva to the head of the HR department in response to the advertisement.
  - 2. A letter had been written by Shiva to the head of the HR department in response to the advertisement.
  - 3. A letter was written by the head of the HR department to Shiva in response to the advertisement.
  - 4. A letter was wrote by Shiva to the head of the HR department in response to the advertisement.

Question ID : 81616113491  
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 number.

English vocabulary has (1)\_\_\_\_\_ remarkable range, flexibility and adaptability. Thanks to the periods (2)\_\_\_\_\_ contact with foreign (3)\_\_\_\_\_ and its readiness to (4)\_\_\_\_\_ new words out of old elements, English seems to have far more words in its core (5)\_\_\_\_\_ than other languages.

**SubQuestion No : 21**

**Q.21** Select the most appropriate option to fill in blank number 1.

- Ans**  1. a  
 2. the  
 3. one  
 4. an

Question ID : 81616112284

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 number.

English vocabulary has (1)\_\_\_\_\_ remarkable range, flexibility and adaptability. Thanks to the periods (2)\_\_\_\_\_ contact with foreign (3)\_\_\_\_\_ and its readiness to (4)\_\_\_\_\_ new words out of old elements, English seems to have far more words in its core (5)\_\_\_\_\_ than other languages.

**SubQuestion No : 22**

**Q.22** Select the most appropriate option to fill in blank number 2.

- Ans**  1. at  
 2. of  
 3. on  
 4. to

Question ID : 81616112285

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 number.

English vocabulary has (1)\_\_\_\_\_ remarkable range, flexibility and adaptability. Thanks to the periods (2)\_\_\_\_\_ contact with foreign (3)\_\_\_\_\_ and its readiness to (4)\_\_\_\_\_ new words out of old elements, English seems to have far more words in its core (5)\_\_\_\_\_ than other languages.

**SubQuestion No : 23**

**Q.23** Select the most appropriate option to fill in blank number 3.

- Ans**  1. languages  
 2. currencies  
 3. mathematics  
 4. science

Question ID : 81616112286

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 number.

English vocabulary has (1)\_\_\_\_\_ remarkable range, flexibility and adaptability. Thanks to the periods (2)\_\_\_\_\_ contact with foreign (3)\_\_\_\_\_ and its readiness to (4)\_\_\_\_\_ new words out of old elements, English seems to have far more words in its core (5)\_\_\_\_\_ than other languages.

**SubQuestion No : 24**

**Q.24** Select the most appropriate option to fill in blank number 4.

- Ans**  1. coin  
 2. think  
 3. shed  
 4. discard

Question ID : 81616112287

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 number.

English vocabulary has (1)\_\_\_\_\_ remarkable range, flexibility and adaptability. Thanks to the periods (2)\_\_\_\_\_ contact with foreign (3)\_\_\_\_\_ and its readiness to (4)\_\_\_\_\_ new words out of old elements, English seems to have far more words in its core (5)\_\_\_\_\_ than other languages.

**SubQuestion No : 25**

**Q.25** Select the most appropriate option to fill in blank number 5.

- Ans**
- 1. selection
  - 2. inventory
  - 3. catalogue
  - 4. vocabulary

Question ID : 81616112288

Status : Answered

Chosen Option : 4