

## Combined Graduate Level Examination 2020 Tier-I

|                |   |
|----------------|---|
| Roll Number    |   |
| Candidate Name |   |
| Venue Name     |   |
| Exam Date      | 17/08/2021                                      |
| Exam Time      | 3:00 PM - 4:00 PM                               |
| Subject        | Combined Graduate Level Examination 2020 Tier 1 |

Section : General Intelligence and Reasoning

**Q.1** 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. NQT
  - 2. MPS
  - 3. QTV
  - 4. PSV

Question ID : 81616112305  
Status : Answered  
Chosen Option : 3

**Q.2** There are 28 persons present at a press conference. After the conference they all shake hands with each other. If 7 of them refuse to shake hands at all, then how many hands shakes will be there altogether?

- Ans
- 1. 378
  - 2. 231
  - 3. 420
  - 4. 210

Question ID : 81616112219  
Status : Not Answered  
Chosen Option : --

**Q.3** 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.

396 : 24 :: ? : 28 :: 672 : 30

- Ans
- 1. 504
  - 2. 572
  - 3. 588
  - 4. 536

Question ID : 81616113931  
Status : Not Answered  
Chosen Option : --

**Q.4** Select the option in which the numbers are related in the same way as are the numbers of the following set.

(4, 8, 16)

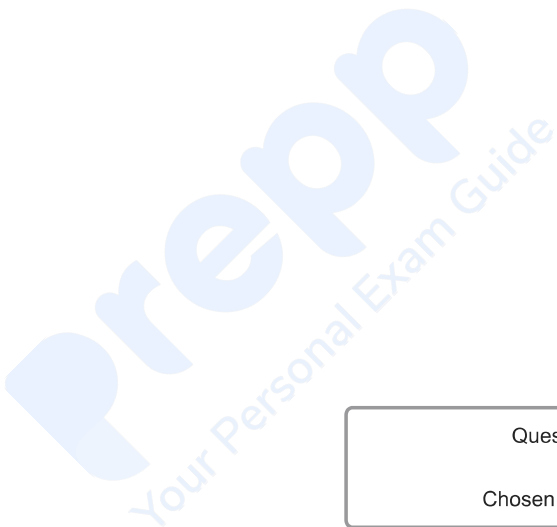
- Ans  1. (20, 24, 16)  
 2. (18, 6, 15)  
 3. (24, 15, 44)  
 4. (11, 16, 51)

Question ID : 81616113933  
 Status : Answered  
 Chosen Option : 1

**Q.5** Select the correct mirror image of the given figure when the mirror is placed to its right side.



- Ans  1.   
 2.   
 3.   
 4.



Question ID : 81616112224  
 Status : Answered  
 Chosen Option : 2

**Q.6** Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

\_ Q \_ S P \_ R \_ \_ Q \_ \_ P \_ R \_

- Ans  1. P, R, Q, S, P, R, S, Q, S  
 2. P, R, Q, S, P, R, R, P, Q  
 3. S, P, R, S, P, R, Q, Q, S  
 4. P, R, Q, S, Q, S, P, R, S

Question ID : 81616112210  
 Status : Not Answered  
 Chosen Option : --

**Q.7** 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. (16, 112)  
 2. (17, 119)  
 3. (18, 128)  
 4. (15, 105)

Question ID : 81616112417  
 Status : Answered  
 Chosen Option : 3

**Q.8** In a certain code language, 'MANGO' is coded as '13-2-42-28-75' and 'GRAPE' is coded as '7-36-3-64-25'. How will 'APPLE' be coded in that language?

- Ans  1. 1-32-48-48-25  
 2. 1-32-24-21-30  
 3. 2-32-48-24-28  
 4. 2-16-48-21-25

Question ID : 81616112411  
 Status : Answered  
 Chosen Option : 1

**Q.9** Ram, Rajat and Ramesh are the three sons of Kavita. Mukul is the son of Ram. Mukul's paternal grandfather is Jay. Jay has one daughter, Nikita. Rajat's son, Abhiram is married to Rani and their daughter is Ina. Nirmala is the daughter of Nikita. How is Jay related to Ina?

- Ans  1. Paternal uncle  
 2. Father-in-law  
 3. Great grandfather  
 4. Grandfather

Question ID : 81616112211  
 Status : Answered  
 Chosen Option : 3

**Q.10** Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

ABD, CEI, EHN, ?

- Ans  1. GIM  
 2. GHJ  
 3. FJR  
 4. GKS

Question ID : 81616112202  
 Status : Answered  
 Chosen Option : 4

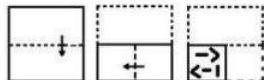
**Q.11** Select the option in which the words share the same relationship as that shared by the given pair of words.

**Flower : Floriculture**

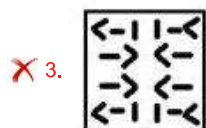
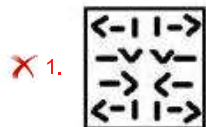
- Ans
- 1. Silk : Silviculture
  - 2. Honey : Horticulture
  - 3. Mushroom : Viticulture
  - 4. Earthworm : Vermiculture

Question ID : 81616112207  
Status : Answered  
Chosen Option : 4

**Q.12** 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?

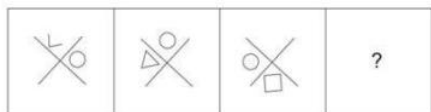


Ans



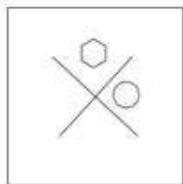
Question ID : 81616112225  
Status : Answered  
Chosen Option : 2

**Q.13** Select the figure from among the given options that can replace the question mark (?) in the following series.

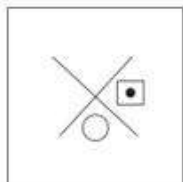


**Ans**

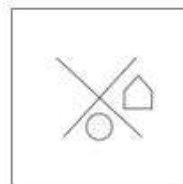
1.



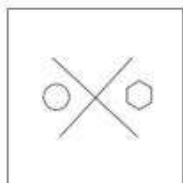
2.



3.



4.



Question ID : 81616112321

Status : Answered

Chosen Option : 3

**Q.14** In a certain code language, 'PLIGHT' is written as 'JMQUIH'. How will 'CANDLE' be written in that language?

1. BODMFE

2. ODBFME

3. ODBFME

4. ODBFEM

Question ID : 81616113925

Status : Answered

Chosen Option : 2

Q.15 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Hygienic
2. Hydroplane
3. Hydroelectric
4. Hydroxide
5. Hydrology

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

Question ID : 81616112304

Status : Answered

Chosen Option : 2

Q.16 Four words have been given, out of which three are alike in some manner and one is different. Select the word that is different.

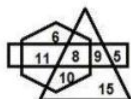
- Ans
- 1. Mistress
  - 2. Guide
  - 3. Instructor
  - 4. Mentor

Question ID : 81616112407

Status : Answered

Chosen Option : 1

Q.17 In the following Venn diagram, the triangle stands for 'Players', the hexagon stands for 'Indians', and the rectangle stands for 'Boys'. The given numbers represent the number of persons in that particular category.



How many Indians are players but are NOT boys?

- Ans
- 1. 9
  - 2. 11
  - 3. 10
  - 4. 8

Question ID : 81616113943

Status : Answered

Chosen Option : 3

**Q.18** 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:**

No guest is trained.  
All trained are employees.  
Some employees are tall.

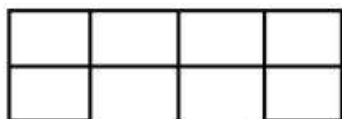
**Conclusions:**

I. Some tall are trained.  
II. Some employees are trained.  
III. No tall is a guest.

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

Question ID : 81616113929  
Status : Answered  
Chosen Option : 4

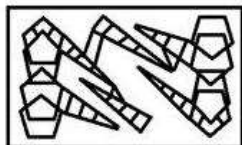
**Q.19** How many rectangles are there in the given figure?



- Ans**
- 1. 12
  - 2. 8
  - 3. 10
  - 4. 14

Question ID : 81616112423  
Status : Answered  
Chosen Option : 4

**Q.20** Select the option that is embedded in the given figure (rotation is NOT allowed).



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

Question ID : 81616112223  
Status : Answered  
Chosen Option : 1

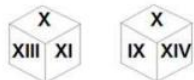
Q.21 Select the number from among the given options that can replace the question mark (?) in the following series.

215, 231, 256, 292, ?

- Ans  1. 328  
 2. 341  
 3. 402  
 4. 369

Question ID : 81616112314  
 Status : Answered  
 Chosen Option : 2

Q.22 Two different positions of the same dice are shown, the faces of which are marked with the numbers IX, X, XI, XII, XIII and XIV. Select the number that will be on the face opposite to the face having the number 'XIV'.



- Ans  1. XI  
 2. IX  
 3. X  
 4. XII

Question ID : 81616112424  
 Status : Answered  
 Chosen Option : 1

Q.23 Select the correct combination of mathematical signs that can sequentially replace the \* signs and make the equation correct.

$48 * 12 * 8 * 15 * 3 * 44$

- Ans  1. x, ÷, =, -, +  
 2. ÷, x, +, -, =  
 3. +, ÷, -, =, x  
 4. =, x, +, ÷, -

Question ID : 81616112420  
 Status : Answered  
 Chosen Option : 2

Q.24 Select the option in which the numbers are NOT related in the same way as are the numbers of the following set.

(7, 51, 22)

- Ans  1. (4, 18, 19)  
 2. (11, 123, 26)  
 3. (6, 38, 22)  
 4. (3, 11, 18)

Question ID : 81616112419  
 Status : Not Answered  
 Chosen Option : --



Q.25 Select the option that is related to the third word in the same way as the second word is related to the first word.

Sheep : Lamb :: Cockroach : ?

- Ans
- 1. Larva
  - 2. Caterpillar
  - 3. Filly
  - 4. Nymph

Question ID : 81616112307  
Status : Answered  
Chosen Option : 3

Section : General Awareness

Q.1 Which Ministry of the Government of India received the SKOCH Challenger Award for 'Best Performance in e-Governance' in January 2021?

- Ans
- 1. Ministry of Tribal Affairs
  - 2. Ministry of Parliamentary Affairs
  - 3. Ministry of Education
  - 4. Ministry of Information and Broadcasting

Question ID : 81616112352  
Status : Answered  
Chosen Option : 1

Q.2 Which of the following statements is related to positive economics?

- Ans
- 1. An increase in money supply implies a price rise in an economy.
  - 2. Inequalities in the distribution of wealth and incomes should be reduced.
  - 3. Inflation is better than deflation.
  - 4. More production of luxury goods is not good for a less developed country.

Question ID : 81616112229  
Status : Answered  
Chosen Option : 1

Q.3 Who among the following along with Motilal Nehru was instrumental in the creation of the Swaraj Party?

- Ans
- 1. Chittaranjan Das
  - 2. Surendranath Banerjee
  - 3. Bipin Chandra Pal
  - 4. Subhash Chandra Bose

Question ID : 81616113956  
Status : Answered  
Chosen Option : 1

**Q.4** Which of the following civic bodies was declared as the 'Best Performing Municipal Corporation' in India in December 2020 for implementing the Pradhan Mantri Awas Yojana-Urban Mission? The annual awards were announced by the Ministry of Housing and Urban Affairs.

- Ans**  1. Greater Vishakhapatnam Municipal Corporation  
 2. Guwahati Municipal Corporation  
 3. Bhopal Municipal Corporation  
 4. West Delhi Municipal Corporation

Question ID : 81616112250  
 Status : Not Answered  
 Chosen Option : --

**Q.5** Which of the following states banned online gaming in October 2020?

- Ans**  1. Gujarat  
 2. Maharashtra  
 3. Andhra Pradesh  
 4. Madhya Pradesh

Question ID : 81616112350  
 Status : Not Answered  
 Chosen Option : --

**Q.6** The language 'Idu Mishmi' is spoken in the state of \_\_\_\_\_.

- Ans**  1. Punjab  
 2. Madhya Pradesh  
 3. Arunachal Pradesh  
 4. Kerala

Question ID : 81616112430  
 Status : Not Answered  
 Chosen Option : --

**Q.7** Which one of the following element is Monatomic unit?

- Ans**  1. Gold  
 2. Sulphur  
 3. Hydrogen  
 4. Phosphorus

Question ID : 81616112435  
 Status : Answered  
 Chosen Option : 1

**Q.8** As of January 2021, who among the following was the Chairperson of the Central Board of Film Certification?

- Ans**  1. Asha Parekh  
 2. Shekhar Kapoor  
 3. Rekha  
 4. Prasoon Joshi

Question ID : 81616112244  
 Status : Answered  
 Chosen Option : 2

Q.9 Mahavira, who was known in Pali literature as Nigantha Nataputta, founded a religion called \_\_\_\_\_.

- Ans
- 1. Jainism
  - 2. Zoroastrianism
  - 3. Bahá'í
  - 4. Sikhism

Question ID : 81616112241  
Status : Answered  
Chosen Option : 1

Q.10 \_\_\_\_\_ was conferred the honorary rank of General of the Nepali Army in November 2020.

- Ans
- 1. Karambir Singh
  - 2. MM Naravane
  - 3. Bipin Rawat
  - 4. Rakesh Kumar Singh Bhadauria

Question ID : 81616112344  
Status : Answered  
Chosen Option : 2

Q.11 According to 'The Ramayana', Ratnakar was the other name of \_\_\_\_\_.

- Ans
- 1. Valmiki
  - 2. Durbasa
  - 3. Gautam
  - 4. Vishvamitra

Question ID : 81616113944  
Status : Answered  
Chosen Option : 1

Q.12 The story of Maynamati and Gopichandra is a part of the following literary works?

- Ans
- 1. Chandimangal Kavya
  - 2. Manasamangal Kavya
  - 3. Sanskrit epics
  - 4. Nath literature

Question ID : 81616113959  
Status : Not Answered  
Chosen Option : --

Q.13 What is the botanical name of mango?

- Ans
- 1. Monoon longifolium
  - 2. Casuarina
  - 3. Mangifera indica
  - 4. Cocos nucifera

Question ID : 81616112235  
Status : Not Answered  
Chosen Option : --

Q.14 Yerla, Warna and Dindi are tributaries of the \_\_\_\_\_ river system.

- Ans  1. Brahmaputra  
 2. Krishna  
 3. Godavari  
 4. Kaveri

Question ID : 81616112438  
Status : Not Answered  
Chosen Option : --

Q.15 Name the captain of the Indian men's hockey team, as on January 2021:

- Ans  1. SV Sunil  
 2. Manpreet Singh Pawar  
 3. Simranjeet Singh  
 4. Lalit Upadhyay

Question ID : 81616112348  
Status : Answered  
Chosen Option : 2

Q.16 Who among the following was the first to conclude that in vacuum all objects fall with the same acceleration  $g$  and reach the ground at the same time?

- Ans  1. Thomas Alva Edison  
 2. Isaac Newton  
 3. Galileo Galilei  
 4. Albert Einstein

Question ID : 81616112333  
Status : Answered  
Chosen Option : 2

Q.17 What was the total number of goals scored in the finals of the FIFA World Cup 2018?

- Ans  1. Four  
 2. Three  
 3. Five  
 4. Six

Question ID : 81616113965  
Status : Not Answered  
Chosen Option : --

Q.18 Who is the author of the book 'Tarikh-i Dilkusha'?

- Ans  1. Panini  
 2. Bhimsen  
 3. Sushruta  
 4. Charaka

Question ID : 81616112442  
Status : Not Answered  
Chosen Option : --

**Q.19** Who among the following economists formulated the Law of Diminishing Marginal Utility (DMU)?

- Ans  1. Adam Smith  
 2. HH Gossen  
 3. David Ricardo  
 4. Milton Friedman

Question ID : 81616112432  
 Status : Not Answered  
 Chosen Option : --

**Q.20** How many microns are there in a metre?

- Ans  1. 1000  
 2. 10000  
 3. 1000000  
 4. 100000

Question ID : 81616113948  
 Status : Answered  
 Chosen Option : 4

**Q.21** To which neighbouring country was the Indian Peace Keeping Force (IPKF) sent in the year 1987?

- Ans  1. Bhutan  
 2. Burma  
 3. Nepal  
 4. Sri Lanka

Question ID : 81616112447  
 Status : Not Answered  
 Chosen Option : --

**Q.22** As per Article \_\_\_\_\_ of the Constitution of India, English is the official language for all the high courts in the country.

- Ans  1. 329 (1)  
 2. 348 (1)  
 3. 336 (1)  
 4. 315 (1)

Question ID : 81616112246  
 Status : Not Answered  
 Chosen Option : --

**Q.23** Which of the following does NOT figure among the main functions of the root system of a plant?

- Ans  1. Supply of food to plant parts  
 2. Absorption of water from the soil  
 3. Absorption of mineral from the soil  
 4. Providing a proper anchorage to the plant parts

Question ID : 81616113951  
 Status : Answered  
 Chosen Option : 1

**Q.24** The river Ganga divides the state of Bihar into \_\_\_\_\_ parts.

- Ans  1. five  
 2. three  
 3. two  
 4. four

Question ID : 81616112237  
 Status : **Not Answered**  
 Chosen Option : --

**Q.25** Identify the state animal of Assam.

- Ans  1. Ox  
 2. One-horned Rhino  
 3. Elephant  
 4. Snow Leopard

Question ID : 81616112339  
 Status : **Answered**  
 Chosen Option : 2

Section : Quantitative Aptitude

**Q.1** The marked price of an article is ₹240. A shopkeeper sells it by allowing 18% discount on its marked price and still gains 23%. What is the cost price (in ₹) of the article?

- Ans  1. 200  
 2. 180  
 3. 160  
 4. 150

Question ID : 81616113972  
 Status : **Answered**  
 Chosen Option : 3

**Q.2** Each one of five men independently can complete a work in 20 days. The work is started by one person. Next day one more person joins and every next day one more person joins. From the fifth day, five persons continued working as a team. In how many days, will the work be completed?

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

Question ID : 81616112462  
 Status : **Answered**  
 Chosen Option : 1

**Q.3** Points A and B are on a circle with centre O. PAM and PBN are tangents to the circle at A and B respectively from a point P outside the circle. Point Q is on the major arc AB such that  $\angle QAM = 58^\circ$  and  $\angle QBN = 50^\circ$ , then find the measure (in degrees) of  $\angle APB$ .

- Ans**
- ✓ 1. 36
  - ✗ 2. 40
  - ✗ 3. 30
  - ✗ 4. 32

Question ID : 81616112469  
Status : Answered  
Chosen Option : 1

**Q.4** Find the sum of squares of the greatest value and the smallest value of K in the number so that the number 45082K is divisible by 3.

- Ans**
- ✗ 1. 100
  - ✓ 2. 68
  - ✗ 3. 50
  - ✗ 4. 64

Question ID : 81616112454  
Status : Answered  
Chosen Option : 2

**Q.5** In triangle ABC, D is a point on BC such that  $BD : DC = 3 : 4$ . E is a point on AD such that  $AE : ED = 2 : 3$ . Find the ratio area ( $\triangle ECD$ ) : area ( $\triangle AEB$ ).

- Ans**
- ✗ 1. 9 : 8
  - ✓ 2. 2 : 1
  - ✗ 3. 1 : 2
  - ✗ 4. 8 : 9

Question ID : 81616112269  
Status : Not Answered  
Chosen Option : --

**Q.6** The pie chart shows the percentage distribution of a total of 800 employees in different departments of a company.

**% of Employees in Different Departments**



How many employees are working in the field of marketing?

- Ans**
- ✓ 1. 176
  - ✗ 2. 200
  - ✗ 3. 240
  - ✗ 4. 120

Question ID : 81616113385  
Status : Answered  
Chosen Option : 1

Q.7 If  $4x^4 = 5x^2 - 1, x > \frac{1}{\sqrt{2}}$ , then what is the value of  $(2x^2 - x - 1)$ ?

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

Question ID : 81616112467  
Status : Not Answered  
Chosen Option : --

Q.8 In triangle ABC, P and Q are the mid points of AB and AC, respectively. R is a point on PQ such that PR : RQ = 3 : 5 and QR = 20 cm, then what is the length (in cm) of BC?

- Ans
- 1. 66.66
  - 2. 24
  - 3. 64
  - 4. 40

Question ID : 81616112369  
Status : Answered  
Chosen Option : 3

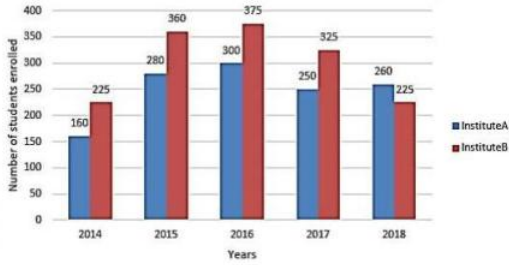
Q.9 The cost price and the marked price of an item are ₹720 and ₹900 respectively. When it is sold at a discount of  $x\%$ , the profit is  $\frac{5x}{3}\%$ . What is the value of  $x$ ?

- Ans
- 1.  $5\frac{5}{7}$
  - 2.  $5\frac{4}{7}$
  - 3.  $7\frac{4}{7}$
  - 4.  $8\frac{4}{7}$

Question ID : 81616112358  
Status : Answered  
Chosen Option : 4



**Q.10** Bar graph shows the number of students enrolled for a vocational course in institutes A and B during 5 years from 2014 to 2018.



The total number of students enrolled in institute B during 2014, 2016 and 2018 is what percent of the total number of students enrolled in institute A during the five Years?

- Ans**
- ✓ 1. 66%
  - ✗ 2. 49%
  - ✗ 3. 57%
  - ✗ 4. 75%

Question ID : 81616113387  
Status : Answered  
Chosen Option : 1

**Q.11** The following Pie charts represent the distribution of candidates who were enrolled for competitive examination and the candidates (out of those enrolled) who passed the exam from five different institutes P, Q, R, S and T.

Fig. (i) Total number of candidates enrolled in five different institutes = 7500

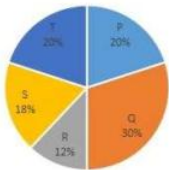
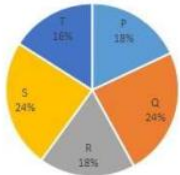


Fig. (ii) Total number of candidates passed the examination from five Institutes = 4000



What is the pass percentage for institute Q? (correct upto one decimal place.)

- Ans**
- ✗ 1. 71.1%
  - ✓ 2. 42.7%
  - ✗ 3. 48%
  - ✗ 4. 80%

Question ID : 81616113084  
Status : Answered  
Chosen Option : 2

**Q.12** The ratio of present ages of A and B is 7 : 8. After 6 years from now, the ratio of their ages will be 8 : 9. If C's present age is 10 years more than the present age of A, then the present age (in years) of C is:

- Ans**
- 1. 45
  - 2. 52
  - 3. 59
  - 4. 56

Question ID : 81616113975  
Status : **Answered**  
Chosen Option : 2

**Q.13** A sports-goods shop has tennis balls of 3 colors - red, green and white. The number of white balls is 60% more than number of red balls and the number of green balls is 12.5% less than number of white balls. If total number of balls is 120, then how many green balls are there?

- Ans**
- 1. 48
  - 2. 40
  - 3. 42
  - 4. 30

Question ID : 81616112458  
Status : **Answered**  
Chosen Option : 3

**Q.14** If  $x^2 + 9y^2 + 4z^2 = 12(x - 2y + 2z) - 88$ , then the value of  $(x - 3y + z)$  is:

- Ans**
- 1. 11
  - 2. 13
  - 3. 10
  - 4. 5

Question ID : 81616113981  
Status : **Not Answered**  
Chosen Option : --

**Q.15** A man can row a distance of 8 km downstream in a certain time and can row 6 km upstream in the same time. If he rows 24 km upstream and the same distance downstream in  $1\frac{3}{4}$  hours, then the speed (in km/h) of the current is:

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

Question ID : 81616113978  
Status : **Not Answered**  
Chosen Option : --

**Q.16** If  $7 \cos^2 \theta + 5 \sin^2 \theta - 6 = 0$ , ( $0^\circ < \theta < 90^\circ$ ), then what is the value of  $\sqrt{\frac{\operatorname{cosec} \theta + \tan \theta}{\sec \theta - \cot \theta}}$

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

Question ID : 81616113382  
Status : **Not Answered**  
Chosen Option : --

**Q.17** In a circle, a ten cm long chord is at a distance of 12 cm from the centre of the circle. Length of the diameter of the circle (in cm) is:

- Ans**
- 1. 20
  - 2. 22
  - 3. 26
  - 4. 13

Question ID : 81616112266  
Status : **Answered**  
Chosen Option : 3

**Q.18** What is the area of the square (*in cm<sup>2</sup>*) whose vertices lie on a circle of radius 5 cm?

- Ans**
- 1. 80
  - 2. 50
  - 3. 100
  - 4. 75

Question ID : 81616112262  
Status : **Answered**  
Chosen Option : 2

**Q.19** The average score of 40 students in a class test is 45. Later on, it was found that at two places 25 was read as 35 and at one place 38 was read as 32. What is the actual average score of the class?

- Ans**
- 1. 43.80
  - 2. 39.69
  - 3. 45.35
  - 4. 44.65

Question ID : 81616112254  
Status : **Answered**  
Chosen Option : 4

Q.20 Simplify the following expression.

$$\left(\frac{7}{16} \div \frac{1}{2} \text{ of } \frac{1}{5}\right) \times \frac{4}{5} - \frac{1}{3} \times \frac{5}{8} \div \frac{1}{2} + \frac{3}{4}$$

- Ans
- ✓ 1.  $\frac{23}{6}$
  - ✗ 2.  $\frac{10}{3}$
  - ✗ 3.  $\frac{317}{96}$
  - ✗ 4.  $\frac{71}{150}$

Question ID : 81616112354  
Status : Answered  
Chosen Option : 1

Q.21 If  $4 \sin^2(2x - 10)^\circ = 3$ ,  $0 \leq (2x - 10) \leq 90$ , then find the value of  $\frac{\sin^4(x-5)^\circ + \cos^4(x-5)^\circ}{1 - 2\sin^2(3x-15)^\circ \cos^2(3x-15)^\circ}$ .

- Ans
- ✓ 1.  $\frac{5}{8}$
  - ✗ 2. -1
  - ✗ 3. 1
  - ✗ 4.  $-\frac{5}{8}$

Question ID : 81616112472  
Status : Not Answered  
Chosen Option : --

Q.22 Simplify the following expression:

$$\frac{108 \times 108 \times 108 - 92 \times 92 \times 92}{108 \times 108 + 92 \times 92 + 108 \times 92}$$

- Ans
- ✓ 1. 16
  - ✗ 2. -1
  - ✗ 3. 1
  - ✗ 4. 200

Question ID : 81616112364  
Status : Answered  
Chosen Option : 1

Q.23 The value of  $\frac{\sqrt{2} \tan(60^\circ - \theta) \tan(30^\circ + \theta)}{\sin^2(45^\circ + \theta) + \sin^2(45^\circ - \theta)}$  is:

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

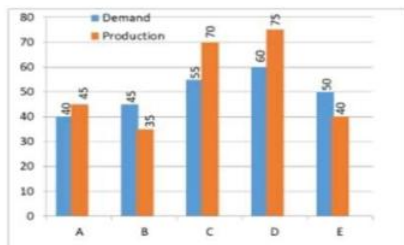
Question ID : 81616112271  
Status : Answered

**Q.24** A man borrowed a certain sum and agrees to repay it by paying ₹4000 at the end of first year and ₹7700 at the end of second year. If the rate of compound interest compounded annually is 10% per annum, then find the sum (in ₹) borrowed.

- Ans**
- 1. 11000
  - 2. 10000
  - 3. 9000
  - 4. 11500

Question ID : 81616112461  
Status : **Not Answered**  
Chosen Option : --

**Q.25** The following bar graph shows the demand and production (in Lakhs) of motor cycles of five different companies A, B, C, D and E in 2020.



What is the ratio of total production of motor cycles of companies A, B, C, D and E, to that of the total demand of motor cycles of all the companies during the five years?

- Ans**
- 1. 52%
  - 2. 30%
  - 3. 45%
  - 4. 65%

Question ID : 81616113082  
Status : **Not Answered**  
Chosen Option : --

Section : English Comprehension

**Q.1** Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'.

No one are supposed to react to her prejudiced comments.

- Ans**
- 1. No one is supposed to react
  - 2. No substitution
  - 3. No one has supposed to react
  - 4. No one had supposed to react

Question ID : 81616112282  
Status : **Answered**  
Chosen Option : 1

**Q.2** Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'.

The teacher asked the students for fill the form before entering the classroom.

- Ans**
- 1. the students to fill the form
  - 2. No substitution
  - 3. the students for filled the form
  - 4. the students to filled the form

Question ID : 81616112483  
Status : **Answered**  
Chosen Option : 1

**Q.3** Select the most appropriate ANTONYM of the given word.

**Dividing**

- Ans**
- 1. Detaching
  - 2. Breaking
  - 3. Parting
  - 4. Connecting

Question ID : 81616112394  
Status : **Answered**  
Chosen Option : 4

**Q.4** Select the most appropriate ANTONYM of the given word.

**Segregate**

- Ans**
- 1. Correlate
  - 2. Allude
  - 3. Integrate
  - 4. Implicate

Question ID : 81616114011  
Status : **Answered**  
Chosen Option : 3

**Q.5** Select the most appropriate synonym of the given word.

**Grumble**

- Ans**
- 1. Call
  - 2. Ring
  - 3. Grin
  - 4. Groan

Question ID : 81616112292  
Status : **Answered**  
Chosen Option : 4

**Q.6** Select the most appropriate option to fill in the blank.

\_\_\_\_\_ yourself with the new perfume.

- Ans**
- 1. Pamper
  - 2. Purify
  - 3. Percolate
  - 4. Prosper

Question ID : 81616112503  
Status : Answered  
Chosen Option : 4

**Q.7** Select the most appropriate meaning of the following idiom.

**Wild goose chase**

- Ans**
- 1. A safari to spot rare animals
  - 2. A long search for hidden prey
  - 3. A worthless hunt or chase
  - 4. Going to watch uncommon birds

Question ID : 81616114013  
Status : Answered  
Chosen Option : 3

**Q.8** 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.

**He win / several accolades / for his / music compositions.**

- Ans**
- 1. several accolades
  - 2. for his
  - 3. He win
  - 4. music compositions

Question ID : 81616112480  
Status : Answered  
Chosen Option : 3

**Q.9** Select the option that expresses the given sentence in indirect speech.

**“I will work hard to get the first rank in class,” said Rohan.**

- Ans**
- 1. Rohan said that he would work hard to get the first rank in class.
  - 2. Rohan said that he could work hard to get the first rank in class.
  - 3. Rohan said that he ought to work hard to get the first rank in class.
  - 4. Rohan said that he should work hard to get the first rank in class.

Question ID : 81616112280  
Status : Answered  
Chosen Option : 4

**Q.10** 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.

When she went for a walk / Maya couldn't take off her scarf / because it was / too much windy.

- Ans
- 1. When she went for a walk
  - 2. Maya couldn't take off her scarf
  - 3. because it was
  - 4. too much windy

Question ID : 81616113994  
Status : Answered  
Chosen Option : 4

**Q.11** 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. In some cases, the problem of the lowering of the river bottom has caused the water table of the surrounding area to drop, which has adversely affected agriculture.
- B. Also, another problem, canalization with its extensive system of locks and navigation dams, often seriously disrupts riverine ecosystems.
- C. The ever-increasing exploitation of rivers has given rise to a variety of problems.
- D. Further, extensive commercial navigation of rivers has resulted in much artificial improvement of natural channels, including increasing the depth of the channels to permit passage of larger vessels.

- Ans
- 1. CDAB
  - 2. DCAB
  - 3. CABD
  - 4. BDAC

Question ID : 81616114007  
Status : Answered  
Chosen Option : 1

**Q.12** Select the most appropriate option to fill in the blank.

A major advertising \_\_\_\_\_ was planned to launch the new brand of garments.

- Ans
- 1. election
  - 2. pension
  - 3. campaign
  - 4. ambush

Question ID : 81616112302  
Status : Answered  
Chosen Option : 3

**Q.13** Select the option that expresses the given sentence in passive voice.

Who wrote the Ramayana?

- Ans
- 1. By who was the Ramayana written?
  - 2. By whom was that who wrote the Ramayana?
  - 3. By whom was the Ramayana written?
  - 4. Who was that who wrote the Ramayana?

Question ID : 81616112481  
Status : Answered  
Chosen Option : 3



Q.14 Select the option that can be used as a one-word substitute for the given group of words.

A news article that reports the recent death of a person

- Ans  1. Mortuary  
 2. Review  
 3. Editorial  
 4. Obituary

Question ID : 81616112500  
Status : Answered  
Chosen Option : 4

Q.15 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 caught by the police on the spot.  
B. Anil bought a car last week.  
C. Unfortunately, the car met with an accident today.  
D. The accident took place due to the carelessness of his driver.

- Ans  1. ABDC  
 2. BCDA  
 3. CDBA  
 4. BACD

Question ID : 81616112390  
Status : Answered  
Chosen Option : 2

Q.16 Select the INCORRECTLY spelt word.

- Ans  1. Comedian  
 2. Camouflage  
 3. Custard  
 4. Caravan

Question ID : 81616112401  
Status : Answered  
Chosen Option : 2

Q.17 Select the INCORRECTLY spelt word.

- Ans  1. Astound  
 2. Amount  
 3. Advice  
 4. Adress

Question ID : 81616112400  
Status : Answered  
Chosen Option : 4

**Q.18** Select the most appropriate meaning of the following idiom.

**Pat on the back**

- Ans  1. Mild form of disapproval or blame  
 2. Praise or approval for doing something good  
 3. Good massage for aches and pains  
 4. Friendly tap to push someone

Question ID : 81616114012  
 Status : **Answered**  
 Chosen Option : 2

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

**Wander**

- Ans  1. Run  
 2. Roam  
 3. Think  
 4. Sing

Question ID : 81616112291  
 Status : **Answered**  
 Chosen Option : 2

**Q.20** Select the option that can be used as a one-word substitute for the given group of words.

**Soft, inner part of a nut or fruit-stone**

- Ans  1. Bean  
 2. Pulp  
 3. Kernel  
 4. Caramel

Question ID : 81616112499  
 Status : **Not Answered**  
 Chosen Option : --

**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.

Ben committed (1)\_\_\_\_\_ crime when he (2)\_\_\_\_\_ a bank. Someone (3)\_\_\_\_\_ the crime and told the police. The police charged him (4)\_\_\_\_\_ the crime and put him behind bars. They also accused his twin brother, Bill, of being his (5)\_\_\_\_\_.

**SubQuestion No : 21**

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

- Ans  1. an  
 2. many  
 3. a  
 4. much

Question ID : 81616112385  
 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 number.

Ben committed (1)\_\_\_\_\_ crime when he (2)\_\_\_\_\_ a bank. Someone (3)\_\_\_\_\_ the crime and told the police. The police charged him (4)\_\_\_\_\_ the crime and put him behind bars. They also accused his twin brother, Bill, of being his (5)\_\_\_\_\_.

**SubQuestion No : 22**

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

- Ans  1. robbed  
 2. entered  
 3. liked  
 4. noticed

Question ID : 81616112386  
 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.

Ben committed (1)\_\_\_\_\_ crime when he (2)\_\_\_\_\_ a bank. Someone (3)\_\_\_\_\_ the crime and told the police. The police charged him (4)\_\_\_\_\_ the crime and put him behind bars. They also accused his twin brother, Bill, of being his (5)\_\_\_\_\_.

**SubQuestion No : 23**

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

- Ans  1. signed  
 2. witnessed  
 3. spoke  
 4. moved

Question ID : 81616112387  
 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.

Ben committed (1)\_\_\_\_\_ crime when he (2)\_\_\_\_\_ a bank. Someone (3)\_\_\_\_\_ the crime and told the police. The police charged him (4)\_\_\_\_\_ the crime and put him behind bars. They also accused his twin brother, Bill, of being his (5)\_\_\_\_\_.

**SubQuestion No : 24**

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

- Ans  1. in  
 2. with  
 3. of  
 4. on

Question ID : 81616112388  
 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 number.

Ben committed (1)\_\_\_\_\_ crime when he (2)\_\_\_\_\_ a bank. Someone (3)\_\_\_\_\_ the crime and told the police. The police charged him (4)\_\_\_\_\_ the crime and put him behind bars. They also accused his twin brother, Bill, of being his (5)\_\_\_\_\_.

**SubQuestion No : 25**

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

Ans  1. accomplice

2. colleague

3. adventurer

4. admirer

Question ID : 81616112389

Status : Answered

Chosen Option : 1