

Combined Graduate Level Examination 2020 Tier-I

Roll Number	
Candidate Name	
Venue Name	iON Digital Zone iDZ 2 Sector 62
Exam Date	23/08/2021
Exam Time	12:00 PM - 1:00 PM
Subject	Combined Graduate Level Examination 2020 Tier 1

Section : General Intelligence and Reasoning

Q.1 In a certain code language, 'LOAD' is coded as '27241613' and 'CLEAN' is coded as '2725231614'. How will 'STRIKE' be coded in that language?

Ans ☒ 1. 2317190189

☒ 2. 1231719089

☒ 3. 1719102389

☒ 4. 2319171098

Question ID : 81616113623

Status : Not Answered

Chosen Option : -

Q.2 Select the letter from among the given options that can replace the question mark (?) in the following series.

Y, S, N, J, ?

Ans ☒ 1. E

☒ 2. G

☒ 3. F

☒ 4. H

Question ID : 81616112311

Status : Answered

Chosen Option : 2

Q.3 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

ZVG, XRI, VNK, TJM, RFO, ?

Ans ☒ 1. QBR

☒ 2. QDP

☒ 3. PAR

☒ 4. PBQ

Question ID : 81616112303

Status : Answered

Chosen Option : 4

Q.4 Select the option in which the words share the same relationship as that shared by the given pair of words.

Zakir Hussain : Tabla

- Ans
- ☐ 1. Bismillah Khan : Sarod
 - ☐ 2. Ravi Shankar : Santoor
 - ☐ 3. Amjad Ali Khan : Shehnai
 - ☒ 4. Hariprasad Chaurasiya : Flute

Question ID : 81616112308

Status : Answered

Chosen Option : 4

Q.5 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:

All ministers are politicians.

All pilots are ministers.

No engineer is a politician.

Conclusions:

I. Some ministers are pilots.

II. No engineer is a minister.

III. No engineer is a pilot.

- Ans
- ☐ 1. Only conclusions I and II follow
 - ☐ 2. Only conclusions II and III follow
 - ☐ 3. Only conclusions I and III follow
 - ☒ 4. All the conclusions follow

Question ID : 81616114030

Status : Answered

Chosen Option : 4

Q.6 Select the number from among the given options that can replace the question mark (?) in the following series.

28, 18, 12, 8, ?

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

Question ID : 81616113425

Status : Answered

Chosen Option : 2

Q.7 Select the correct combination of mathematical signs that can sequentially replace the * signs and balance the equation.

$$252 * 14 * 8 * 100 * 16 * 60$$

Ans ☒ 1. ÷, ×, -, +, =

☒ 2. ÷, ×, +, =, -

☒ 3. ÷, -, ×, +, =

☒ 4. ÷, ×, +, -, =

Question ID : 81616113632

Status : Answered

Chosen Option : 1

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.

$$350 : 5 :: ? : 13 :: 990 : 9$$

Ans ☒ 1. 1620

☒ 2. 1950

☒ 3. 1258

☒ 4. 1052

Question ID : 81616114032

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. Bray

☒ 2. Growl

☒ 3. Gallop

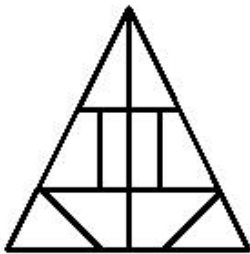
☒ 4. Squeak

Question ID : 81616113619

Status : Not Answered

Chosen Option : -

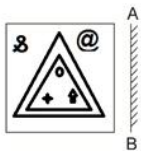
Q.10 Find the number of triangles in the given figure.



- Ans
- ☒ 1. 12
 - ☒ 2. 11
 - ☒ 3. 14
 - ☒ 4. 15

Question ID : 81616113635
Status : Marked For Review
Chosen Option : 2

Q.11 Select the correct mirror image of the given figure when the mirror is placed at 'AB' as shown.



Ans

☒ 1.



☒ 2.



☒ 3.



☒ 4.



Question ID : 81616112325
Status : Answered
Chosen Option : 2

Q.12 Select the option in which the numbers are related in the same way as are the numbers of the following set.

(3, 6, 63)

- Ans
- ☒ 1. (5, 6, 92)
 - ☒ 2. (7, 3, 58)
 - ☒ 3. (8, 5, 64)
 - ☒ 4. (4, 5, 89)

Question ID : 81616114034

Status : Answered

Chosen Option : 4

Q.13 Select the option that is related to the third word in the same way as the second word is related to the first word.

Bats : Colony :: Lions : ?

- Ans
- ☒ 1. Pride
 - ☒ 2. Charm
 - ☒ 3. Band
 - ☒ 4. Herd

Question ID : 81616113418

Status : Answered

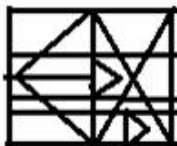
Chosen Option : 1

Q.14 Select the option in which the given figure is embedded (rotation is NOT allowed).



Ans

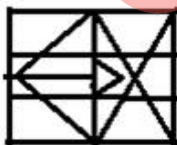
☒ 1.



☒ 2.



☒ 3.



☒ 4.



Question ID : 81616112324

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. Sinuous
2. Solemnity
3. Singular
4. Solvable
5. Sorting

Ans ☒ 1. 3, 1, 2, 4, 5

☐ 2. 1, 3, 2, 5, 4

☐ 3. 1, 3, 2, 4, 5

☐ 4. 3, 2, 1, 5, 4

Question ID : 81616113415

Status : Answered

Chosen Option : 4

Q.16 Select the Venn diagram that best illustrates the relationship among the following classes.

Reptiles, Frogs, Animals

Ans

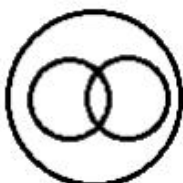
☐ 1.



☒ 2.



☐ 3.



☐ 4.



Question ID : 81616114044

Status : Answered

Chosen Option : 2

Q.17 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. 5 : 100

☐ 2. 7 : 294

☐ 3. 6 : 180

☒ 4. 4 : 52

Question ID : 81616113629

Status : Answered

Chosen Option : 4

Q.18 Arya's mother's husband is the brother of Meena's mother. Vansh is the brother of Meena and Kavita. Varun is the father of Arya. How is Varun related to Vansh?

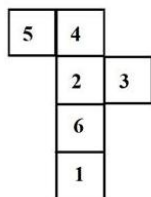
- Ans ☒ 1. Father
☒ 2. Maternal uncle
☒ 3. Brother
☒ 4. Son

Question ID : 81616112312

Status : Answered

Chosen Option : 3

Q.19 A cube is made by folding the given sheet. In the cube so formed, what would be the number on the opposite side of the number '1'?



- Ans ☒ 1. 5
☒ 2. 2
☒ 3. 4
☒ 4. 3

Question ID : 81616113636

Status : Answered

Chosen Option : 2

Q.20 In a certain code language, 'TRAVEL' is written as 'SUWBMF'. How will 'FROZEN' be written in that language?

- Ans ☒ 1. TGBPOF
☒ 2. SGAQPF
☒ 3. SGAPOF
☒ 4. SGBPOG

Question ID : 81616114026

Status : Answered

Chosen Option : 3

Q.21 Select the options in which the numbers are related in the same way as are the numbers of the following set.

(4, 532, 10)

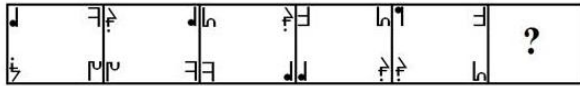
- Ans ☒ 1. (4, 140, 6)
☒ 2. (9, 396, 4)
☒ 3. (3, 269, 8)
☒ 4. (2, 121, 6)

Question ID : 81616113631

Status : Answered

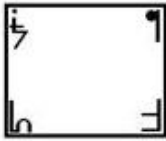
Chosen Option : 3

Q.22 Select the figure from among the given options that can replace the question mark (?) in the following series.

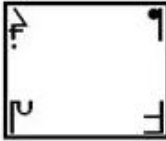


Ans

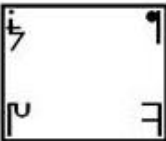
✓ 1.



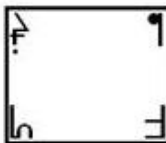
✗ 2.



✗ 3.



✗ 4.



Question ID : 81616113432

Status : Answered

Chosen Option : 1

Q.23 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?

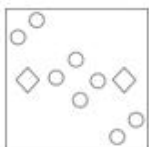


Ans

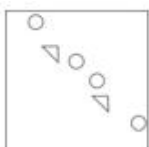
☒ 1.



☒ 2.



☒ 3.



☒ 4.



Question ID : 81616112326

Status : Answered

Chosen Option : 4

Q.24 The average age of 17 persons is 39 years. If the average age of the first 9 persons is 35 years, and the average age of the last 9 persons is 44 years, what is the age of the 9th person?

Ans ☒ 1. 48 years

☒ 2. 45 years

☒ 3. 41 years

☒ 4. 36 years

Question ID : 81616112320

Status : Answered

Chosen Option : 1

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. HJQL

☒ 2. WYBY

☒ 3. LNMH

☒ 4. RTGB

Question ID : 81616113416

Status : Answered

Chosen Option : 2

Q.1 _____ is a process in which impure water is boiled and the steam is collected and condensed in a separate container, leaving many of the solid contaminants behind.

- Ans
- ☒ 1. Distillation
 - ☐ 2. Sedimentation
 - ☐ 3. Filtration
 - ☐ 4. Decantation

Question ID : 81616113444
Status : Answered
Chosen Option : 1

Q.2 Which of the following became the first Indian state to give electricity subsidy to farmers through Direct Benefit Transfer in January 2021?

- Ans
- ☒ 1. Madhya Pradesh
 - ☐ 2. Sikkim
 - ☐ 3. Uttarakhand
 - ☐ 4. Manipur

Question ID : 81616113461
Status : Not Answered
Chosen Option : -

Q.3 Prithviraj Chauhan and Muhammad Ghori fought the battle of _____.

- Ans
- ☐ 1. Chausa
 - ☐ 2. Chanderi
 - ☒ 3. Tarain
 - ☐ 4. Tallikota

Question ID : 81616114057
Status : Answered
Chosen Option : 3

Q.4 Identify the state in which you will find the highest peak of the Deccan Plateau, Anai Mudi.

- Ans
- ☐ 1. Tamil Nadu
 - ☐ 2. Andhra Pradesh
 - ☐ 3. Karnataka
 - ☒ 4. Kerala

Question ID : 81616112338
Status : Answered
Chosen Option : 1

Q.5 What is the chemical symbol of magnesium?

- Ans
- ☒ 1. Mn
 - ☒ 2. Ms
 - ☒ 3. Ma
 - ☒ 4. Mg

Question ID : 81616114049
Status : Answered
Chosen Option : 4

Q.6 The horizontal rows in the modern periodic table are called:

- Ans
- ☒ 1. periods
 - ☒ 2. families
 - ☒ 3. groups
 - ☒ 4. clusters

Question ID : 81616114052
Status : Marked For Review
Chosen Option : 1

Q.7 Which branch of economics deals with the depletion of natural resources stock and pollution, which are a result of rapid economic development?

- Ans
- ☒ 1. Public Economics
 - ☒ 2. Developmental Economics
 - ☒ 3. Environmental Economics
 - ☒ 4. International Economics

Question ID : 81616112330
Status : Marked For Review
Chosen Option : 2

Q.8 Who among the following is the author of the book 'Tabaqat-i-Nasiri'?

- Ans
- ☒ 1. Ziauddin Barani
 - ☒ 2. Al-Biruni
 - ☒ 3. Amir Khusrau
 - ☒ 4. Minhaj-us-Siraj

Question ID : 81616112342
Status : Not Answered
Chosen Option : -

Q.9 Identify the author of the book 'The English Teacher'.

- Ans
- ☒ 1. RK Narayan
 - ☒ 2. Salman Rushdie
 - ☒ 3. Khushwant Singh
 - ☒ 4. Vikram Seth

Question ID : 81616112345
Status : Answered
Chosen Option : 2

Q.10 Who has the power to recommend the dismissal of the state government and suspension or dissolution of the state assembly?

- Ans ☒ 1. Governor
☐ 2. Prime Minister
☐ 3. Chief Minister
☐ 4. Speaker of legislative assembly

Question ID : 81616113659
Status : Answered
Chosen Option : 1

Q.11 Which longitude has been selected as the Standard Meridian of India?

- Ans ☒ 1. 82°30'E
☐ 2. 81°30'E
☐ 3. 82°32'E
☐ 4. 82°31'E

Question ID : 81616113650
Status : Answered
Chosen Option : 1

Q.12 Who among the following persons was appointed as the chief scientist of the International Cotton Advisory Committee in January 2021?

- Ans ☐ 1. Sandhya Kranthi
☐ 2. Kai Hughes
☒ 3. Keshav Kranthi
☐ 4. Caroline Taco

Question ID : 81616113463
Status : Not Answered
Chosen Option : -

Q.13 Who among the following wrote the novel 'Gora'?

- Ans ☒ 1. Rabindranath Tagore
☐ 2. Mahatma Gandhi
☐ 3. Abanindranath Tagore
☐ 4. Premchand

Question ID : 81616113455
Status : Marked For Review
Chosen Option : 1

Q.14 In which of the following sports is the shakehand grip used?

Ans ☒ 1. Table tennis

☐ 2. Cricket

☐ 3. Badminton

☐ 4. Squash

Question ID : 81616114066

Status : Not Answered

Chosen Option : -

Q.15 Who among the following chroniclers wrote about Raziyya and recognised that she was more able and qualified than all her brothers?

Ans ☐ 1. Ibn Battuta

☐ 2. Amir Khusrau

☒ 3. Minhaj-i-Siraj

☐ 4. Zia-ud-din Barani

Question ID : 81616113654

Status : Answered

Chosen Option : 2

Q.16 _____ is made of lower density felsic rocks, such as andesite and granite.

Ans ☐ 1. Oceanic crust

☒ 2. Continental crust

☐ 3. Inner core

☐ 4. Outer core

Question ID : 81616113450

Status : Answered

Chosen Option : 2

Q.17 The female devotee, Andal belonged to which part of India?

Ans ☐ 1. Western

☐ 2. North-eastern

☐ 3. Northern

☒ 4. Southern

Question ID : 81616114060

Status : Marked For Review

Chosen Option : 4

Q.18 According to the World Bank's annual report on the Ease of Doing Business (EODB), 'Doing Business 2020: Comparing Business Regulations in 190 Economies', India ranks _____ out of 190 countries.

- Ans
- ☒ 1. 47th
 - ☒ 2. 63rd
 - ☒ 3. 54th
 - ☒ 4. 78th

Question ID : 81616112351

Status : Answered

Chosen Option : 2

Q.19 Which of the following statements is correct?

- Ans
- ☒ 1. If the constituents of the medium oscillate perpendicular to the direction of wave propagation, we call the wave a longitudinal wave.
 - ☒ 2. If the constituents of the medium oscillate along the direction of wave propagation, we call the wave a transverse wave.
 - ☒ 3. Frequency of a wave is the number of oscillations of each constituent particle in the vibrating medium per minute.
 - ☒ 4. The minimum distance between two points in a wave having the same phase at a particular instant of time is called the wave length.

Question ID : 81616113647

Status : Not Answered

Chosen Option : -

Q.20 Which of the following is NOT a disease caused by a virus?

- Ans
- ☒ 1. AIDS
 - ☒ 2. Plague
 - ☒ 3. Zika
 - ☒ 4. Ebola

Question ID : 81616112336

Status : Answered

Chosen Option : 2

Q.21 Who among the following has been the longest-serving female chief minister of any Indian state, as on January 2021?

- Ans
- ☒ 1. Sucheta Kripalani
 - ☒ 2. Sheila Dixit
 - ☒ 3. Syeda Anwara Taimur
 - ☒ 4. J Jayalalithaa

Question ID : 81616112347

Status : Answered

Chosen Option : 4

Q.22 Who among the following was the first scholar to decipher the Ashokan edicts?

- Ans
- ☒ 1. Alexander Cunningham
 - ☒ 2. James Prinsep
 - ☒ 3. V Gordon Childe
 - ☒ 4. James Taylor

Question ID : 81616113642
Status : Answered
Chosen Option : 2

Q.23 In January 2018, the Government of India and NITI Aayog launched the 'Transformation of Aspirational Districts' initiative with a vision to improve India's ranking under the Human Development Index by 2022. Which of the following is NOT one of the programme's core area of focus?

- Ans
- ☒ 1. Industry and innovation
 - ☒ 2. Health and nutrition
 - ☒ 3. Education
 - ☒ 4. Agriculture and water resources

Question ID : 81616113644
Status : Answered
Chosen Option : 1

Q.24 Which of the following cities is closest to the location of Pushkar Fair?

- Ans
- ☒ 1. Amravati
 - ☒ 2. Ajmer
 - ☒ 3. Ahmedabad
 - ☒ 4. Prayagraj

Question ID : 81616114045
Status : Answered
Chosen Option : 2

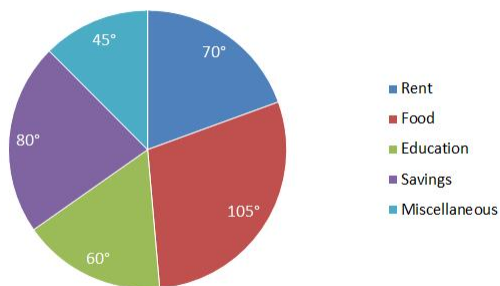
Q.25 In which of the following countries was the first hockey association formed?

- Ans
- ☒ 1. The UK
 - ☒ 2. Spain
 - ☒ 3. India
 - ☒ 4. The US

Question ID : 81616113459
Status : Not Answered
Chosen Option : -

Section : Quantitative Aptitude

Q.1 Pie-Chart shows the degree wise breakup of expenditure of a family in a month. Total income of the family is ₹144000.



What is the expenditure (in ₹) on education?

- Ans**
- ☒ 1. 12000
 - ☒ 2. 24000
 - ☒ 3. 36000
 - ☒ 4. 20000

Question ID : 81616113182
Status : Answered
Chosen Option : 2

Q.2 A tangent is drawn from a point P to a circle, which meets the circle at T such that PT = 8 cm. A secant PAB intersects the circle in points A and B. If PA = 5 cm, what is the length (in cm) of the chord AB?

- Ans**
- ☒ 1. 8.0
 - ☒ 2. 8.4
 - ☒ 3. 6.4
 - ☒ 4. 7.8

Question ID : 81616112367
Status : Answered
Chosen Option : 4

Q.3 Study the following table and answer the question:

Number of students enrolled for Vocational Courses (VC) in institutes A, B, C, D, E & F.

Years					
Institutes	2014	2015	2016	2017	2018
A	110	150	165	180	205
B	120	180	176	200	220
C	140	220	180	175	225
D	125	210	175	180	230
E	150	200	160	200	240
F	165	230	200	220	210

The difference between the average number of students enrolled for VC in institute F in 2015, 2017 and 2018 and the average number of students enrolled in all the six institutes in 2014, is:

- Ans**
- ☒ 1. 89
 - ☒ 2. 88
 - ☒ 3. 82
 - ☒ 4. 85

Question ID : 81616113991
Status : Not Answered
Chosen Option : -

Q.4 If $\frac{\sin^2 \theta}{\tan^2 \theta - \sin^2 \theta} = 5$, θ is an acute angle, then the value of $\frac{24 \sin^2 \theta - 15 \sec^2 \theta}{6 \operatorname{cosec}^2 \theta - 7 \cot^2 \theta}$ is:

- Ans
- ☒ 1. -2
 - ☒ 2. 2
 - ☒ 3. -14
 - ☒ 4. 14

Question ID : 81616113684
Status : Answered
Chosen Option : 3

Q.5 The area of a circular path enclosed by two concentric circles is 3080 m^2 . If the difference between the radius of the outer edge and that of inner edge of the circular path is 10 m, what is the sum (in m) of the two radii? (Take $\pi = \frac{22}{7}$)

- Ans
- ☒ 1. 112
 - ☒ 2. 70
 - ☒ 3. 84
 - ☒ 4. 98

Question ID : 81616113681
Status : Answered
Chosen Option : 4

Q.6 Three persons A, B and C donate 10%, 7% and 9% respectively of their monthly salaries to a charitable trust. Monthly salaries of A and B are equal and the difference between the donations of A and B is ₹900. If the total donation by A and B is ₹600 more than that of C, then what is the monthly salary (in ₹) of C?

- Ans
- ☒ 1. 45000
 - ☒ 2. 55000
 - ☒ 3. 50000
 - ☒ 4. 60000

Question ID : 81616113670
Status : Not Answered
Chosen Option : -

Q.7 If x is subtracted from each of 24, 40, 33 and 57, the numbers, so obtained are in proportion. The ratio of $(5x + 12)$ to $(4x + 15)$ is:

- Ans
- ☒ 1. 7 : 4
 - ☒ 2. 4 : 3
 - ☒ 3. 14 : 13
 - ☒ 4. 7 : 5

Question ID : 81616114076
Status : Not Answered
Chosen Option : -

Q.8 To do a certain work, efficiencies of A and B are in the ratio 7 : 5. Working together, they can complete the work in $17\frac{1}{2}$ days. In how many days, will B alone complete 50% of the same work?

- Ans
- ☒ 1. 42
 - ☒ 2. 21
 - ☒ 3. 15
 - ☒ 4. 30

Question ID : 81616113674

Status : Answered

Chosen Option : 2

Q.9 At what rate percent per annum will ₹7200 amount to ₹7938 in one year, if interest is compounded half yearly?

- Ans
- ☒ 1. 5
 - ☒ 2. 8
 - ☒ 3. 12
 - ☒ 4. 10

Question ID : 81616113673

Status : Answered

Chosen Option : 3

Q.10 Study the following table and answer the question:

Number of students enrolled for Vocational Courses (VC) in institutes A, B, C, D, E & F.

Years Institutes	2014	2015	2016	2017	2018
A	110	150	165	180	205
B	120	180	176	200	220
C	140	220	180	175	225
D	125	210	175	180	230
E	150	200	160	200	240
F	165	230	200	220	210

The total number of students enrolled for VC in institutes D and F in 2014 is what percent of the total number of students enrolled in institutes A, B and C in 2018? (correct to one decimal point)

- Ans
- ☒ 1. 43.2
 - ☒ 2. 42.8
 - ☒ 3. 43.8
 - ☒ 4. 44.6

Question ID : 81616113993

Status : Answered

Chosen Option : 4

Q.11 If $(x+6)^3 + (2x+3)^3 + (3x+5)^3 = (3x+18)(2x+3)(3x+5)$, then what is the value of x ?

Ans

☒ 1. $-\frac{5}{3}$

☒ 2. $\frac{5}{3}$

☒ 3. $-\frac{7}{3}$

☒ 4. $\frac{7}{3}$

Question ID : 81616113475

Status : Answered

Chosen Option : 3

Q.12 In triangle ABC, D and E are the mid points of AB and BC respectively. If $\text{area}(\triangle CED) = 8 \text{ cm}^2$, then what is the $\text{area}(ADEC)$ in cm^2 ?

Ans

☒ 1. 24

☒ 2. 21

☒ 3. 32

☒ 4. 16

Question ID : 81616112370

Status : Marked For Review

Chosen Option : 1

Q.13 Radha bought a fridge and a washing machine together for ₹57300. She sold the fridge at a profit of 15% and washing machine at a loss of 24% and both are sold at the same price. The cost price of washing machine (in ₹) is:

Ans

☒ 1. 28650

☒ 2. 34500

☒ 3. 24500

☒ 4. 22800

Question ID : 81616113469

Status : Not Answered

Chosen Option : -

Q.14 If $x^4 + x^2y^2 + y^4 = 21$ and $x^2 + xy + y^2 = 3$, then what is the value of $(-xy)$?

Ans

☒ 1. -1

☒ 2. 2

☒ 3. 1

☒ 4. -2

Question ID : 81616113679

Status : Answered

Chosen Option : 4

- Q.15** The average weight of students of section A and B having 40 students each is 45.5 kg and 44.2 kg respectively. Two students of section A having average weight 48.75 kg were shifted to section B and 2 students of section B were shifted to section A, making the average weight of both the sections equal. What is the average weight (in kg) of the students who were shifted from section B to section A?

Ans ☒ 1. 35.75
☒ 2. 34.25
☒ 3. 34.5
☒ 4. 35

Question ID : 81616112355
 Status : Not Answered
 Chosen Option : -

- Q.16** A car can cover a distance of 144 km in 1.8 hours. In what time (in hours) will it cover double the distance when its speed is increased by 20%?

Ans ☒ 1. 3
☒ 2. 2.5
☒ 3. 2
☒ 4. 3.2

Question ID : 81616114079
 Status : Answered
 Chosen Option : 1

- Q.17** In $\triangle ABC$, D is a point on BC such that $\angle BAD = \frac{1}{2} \angle ADC$ and $\angle BAC = 77^\circ$ and $\angle C = 45^\circ$. What is the measure of $\angle ADB$?

Ans ☒ 1. 77°
☒ 2. 64°
☒ 3. 58°
☒ 4. 45°

Question ID : 81616113480
 Status : Answered
 Chosen Option : 3

- Q.18** A square has the perimeter equal to the circumference of a circle having radius 7 cm. What is the ratio of the area of the circle to area of the square?

(Use $\pi = \frac{22}{7}$)

Ans ☒ 1. 121 : 44
☒ 2. 7 : 2
☒ 3. 14 : 11
☒ 4. 7 : 11

Question ID : 81616112363
 Status : Answered
 Chosen Option : 3

Q.19

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

- Ans
- ☒ 1. 14
 - ☒ 2. 17
 - ☒ 3. 20
 - ☒ 4. 23

Question ID : 81616114082

Status : Answered

Chosen Option : 2

Q.20

The value of $423 \div \left[270 \div \frac{3}{7} \times 35 + \left(17 \div \frac{1}{3} \right) - \left(8\frac{1}{2} - \frac{5}{2} \right) \right]$ is:

- Ans
- ☒ 1. $\frac{51}{2455}$
 - ☒ 2. $\frac{47}{2455}$
 - ☒ 3. $\frac{43}{2455}$
 - ☒ 4. $\frac{41}{2455}$

Question ID : 81616113465

Status : Answered

Chosen Option : 2

Q.21

The cost price of an article is ₹250. A shopkeeper gains 20% by selling it at a discount of 36% on its marked price. What is the marked price (in ₹) of the article?

- Ans
- ☒ 1. 450
 - ☒ 2. 380.50
 - ☒ 3. 475
 - ☒ 4. 468.75

Question ID : 81616114073

Status : Answered

Chosen Option : 4

Q.22

If $0^\circ < \theta < 90^\circ$, $\sqrt{\frac{\sec^2 \theta + \operatorname{cosec}^2 \theta}{\tan^2 \theta - \sin^2 \theta}}$ is equal to:

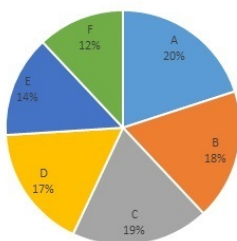
- Ans
- ☒ 1. $\sec^3 \theta$
 - ☒ 2. $\operatorname{cosec}^3 \theta$
 - ☒ 3. $\sin^2 \theta$
 - ☒ 4. $\sec^2 \theta$

Question ID : 81616113888

Status : Marked For Review

Chosen Option : 2

- Q.23** The following Pie chart represents the percentage-wise distribution of 800 students of class XII in a school in six different sections A, B, C, D, E and F.



The table given below shows the number of girls of class XII in six different sections A, B, C, D, E and F.

Section	A	B	C	D	E	F
No. of girls	102	80	104	98	0	60

The total number of girls in sections B, C and D together is what percent more than the total number of boys in sections A, B and D together?

- Ans**
- ☒ 1. 50
 - ☒ 2. 76.25
 - ☒ 3. 65.75
 - ☒ 4. 80

Question ID : 81616113184

Status : Not Answered

Chosen Option : -

- Q.24** $(\operatorname{cosec} A - \cot A)(1 + \cos A) = ?$

- Ans**
- ☒ 1. $\cos A$
 - ☒ 2. $\sin A$
 - ☒ 3. $\cot A$
 - ☒ 4. $\operatorname{cosec} A$

Question ID : 81616112272

Status : Answered

Chosen Option : 2

- Q.25** If the six-digit number $5z3x4y$ is divisible by 7, 11 and 13, then what is the value of $(x + y - z)$?

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

Question ID : 81616113666

Status : Not Answered

Chosen Option : -

Section : English Comprehension

Q.1 Select the most appropriate meaning of the following idiom.

To be light years away

- Ans ☒ 1. To be too distant for human beings to reach
☐ 2. An extremely long time from now in the past or future
☐ 3. When something seems like it is about to happen in the near future
☐ 4. An unlikely event that happened suddenly

Question ID : 81616114114

Status : Answered

Chosen Option : 1

Q.2 Select the most appropriate synonym of the given word.

Ponder

- Ans ☐ 1. Terminate
☐ 2. Celebrate
☐ 3. Agitate
☒ 4. Meditate

Question ID : 81616112393

Status : Answered

Chosen Option : 4

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

Bang

- Ans ☐ 1. Ride
☒ 2. Beat
☐ 3. Rang
☐ 4. Sang

Question ID : 81616112392

Status : Answered

Chosen Option : 3

Q.4 Select the option that expresses the given sentence in passive voice.

The spider on the wall frightened Jiya.

- Ans ☐ 1. The spider on the wall was frightened by Jiya.
☒ 2. Jiya was frightened by the spider on the wall.
☐ 3. Jiya had been frightened of the spider on the wall.
☐ 4. Jiya has been frightened by the spider on the wall.

Question ID : 81616113693

Status : Answered

Chosen Option : 2

Q.5 Select the INCORRECTLY spelt word.

- Ans ☒ 1. Priority
☒ 2. Detective
☒ 3. Evidence
☒ 4. Vaccine

Question ID : 81616113511
 Status : Answered
 Chosen Option : 4

Q.6 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. A fox, hearing the cock and thinking to make a meal of him, came and stood under the tree.
 B. As the night passed away and the day dawned, the cock, according to his custom, set up a shrill crowing.
 C. A dog and a cock having struck up an acquaintance went out on their travels together.
 D. Nightfall found them in a forest, so the cock, flying up on a tree, perched among the branches, while the dog dozed below at the foot.

- Ans ☒ 1. CDBA
☒ 2. DCAB
☒ 3. CABD
☒ 4. BCDA

Question ID : 81616113501
 Status : Answered
 Chosen Option : 3

Q.7 Select the most appropriate option to fill in the blank.

Can you _____ between these two shades of green?

- Ans ☒ 1. detect
☒ 2. divert
☒ 3. distract
☒ 4. distinguish

Question ID : 81616113715
 Status : Answered
 Chosen Option : 4

Q.8 Select the most appropriate meaning of the following idiom.

A fish out of water

- Ans ☒ 1. Feel uncomfortable in unfamiliar surroundings
☒ 2. Feel as if you are unable to breathe
☒ 3. Feel like going to an unfamiliar and new place
☒ 4. Feel comfortable in any kind of place

Question ID : 81616114113
 Status : Answered
 Chosen Option : 1

Q.9 Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'.

The warden punished the students who violates the rules of the hostel.

- Ans
- ☒ 1. who is violating
 - ☒ 2. who violated
 - ☒ 3. who are violate
 - ☒ 4. No substitution

Question ID : 81616113695
Status : Answered
Chosen Option : 3

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

A person who entertains people by doing difficult feats

- Ans
- ☒ 1. Astronaut
 - ☒ 2. Performer comedian
 - ☒ 3. Acrobat
 - ☒ 4. Cosmonaut

Question ID : 81616113711
Status : Answered
Chosen Option : 3

Q.11 Select the option that expresses the given sentence in indirect speech.

"Alas, I have broken my brother's watch!" said he.

- Ans
- ☒ 1. He exclaimed with sorrow I have broken my brother's watch.
 - ☒ 2. He exclaimed with sorrow that he had broken his brother's watch.
 - ☒ 3. He exclaimed with sorrow that he may have broken his brother's watch.
 - ☒ 4. He exclaimed with sorrow that he has broken his brother's watch.

Question ID : 81616112381
Status : Answered
Chosen Option : 2

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

Expunge

- Ans
- ☒ 1. Draw
 - ☒ 2. Wipe
 - ☒ 3. Omit
 - ☒ 4. Add

Question ID : 81616114112
Status : Not Answered
Chosen Option : -

Q.13 Select the most appropriate option to fill in the blank.

If you _____ to newsgroups, you often get hundreds of messages.

- Ans ☒ 1. subscribe
☐ 2. describe
☐ 3. practice
☐ 4. offend

Question ID : 81616112403
Status : Answered
Chosen Option : 1

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

A secret or disguised way of writing

- Ans ☐ 1. Emblem
☐ 2. Symbol
☒ 3. Cypher
☐ 4. Puzzle

Question ID : 81616113712
Status : Answered
Chosen Option : 3

Q.15 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.

The concept became / too much clear to me / after my tutor / showed me the diagram.

- Ans ☐ 1. showed me the diagram
☐ 2. The concept became
☐ 3. after my tutor
☒ 4. too much clear to me

Question ID : 81616113692
Status : Answered
Chosen Option : 4

Q.16 Select the most appropriate ANTONYM of the given word.

Obese

- Ans ☐ 1. Large
☐ 2. Stout
☒ 3. Slim
☐ 4. Greasy

Question ID : 81616113505
Status : Answered
Chosen Option : 3

Q.17 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. Though they had never ever heard Subha utter their names, they unfailingly recognized her footsteps as she came into their shed.
- B. They even understood the precious moments between them as she loved and cuddled them, scolded them, and pleaded to them.
- C. Subha did really have a close circle of friends and companions; they were Sarbasi and Panguli, the two cows living in their cow-shed.
- D. They understood the silent, melancholy tune of her unspoken words during those moments, and the intensity of her expressions more easily than the spoken language of other humans.

Ans ☒ 1. CBDA

☒ 2. CADB

☒ 3. ADBC

☒ 4. DABC

Question ID : 81616114108

Status : Answered

Chosen Option : 1

Q.18 Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'.

The minister, along with his team members, is expected to arrive shortly.

Ans ☒ 1. No substitution

☒ 2. are expected to arrive

☒ 3. are expect to arrive

☒ 4. are being expected to arrive

Question ID : 81616112383

Status : Answered

Chosen Option : 1

Q.19 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.

Mr. Rao asked the newcomer / to his office / if he will minded / working late that day.

Ans ☒ 1. to his office

☒ 2. working late that day

☒ 3. Mr. Rao asked the newcomer

☒ 4. if he will minded

Question ID : 81616114095

Status : Answered

Chosen Option : 4

Q.20 Select the INCORRECTLY spelt word.

- Ans ☒ 1. Innovation
☒ 2. Barricade
☒ 3. Preshious
☒ 4. Infection

Question ID : 81616113512

Status : Answered

Chosen Option : 3

Comprehension:

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

Essaouira's origins stretch back to prehistoric times, and this spot on Morocco's Atlantic coast (1)_____ a centre of culture and commerce ever since. (2)_____ centuries, the harbour town was an important trading post (3)_____ both a seaport and as the north-western terminus of a caravan (4)_____ stretching across the desert to Timbuktu (5)_____ Africa's interior.

SubQuestion No : 21

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

- Ans ☒ 1. been
☒ 2. has been
☒ 3. had be
☒ 4. have been

Question ID : 81616113496

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.

Essaouira's origins stretch back to prehistoric times, and this spot on Morocco's Atlantic coast (1)_____ a centre of culture and commerce ever since. (2)_____ centuries, the harbour town was an important trading post (3)_____ both a seaport and as the north-western terminus of a caravan (4)_____ stretching across the desert to Timbuktu (5)_____ Africa's interior.

SubQuestion No : 22

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

- Ans ☒ 1. In
☒ 2. Above
☒ 3. For
☒ 4. At

Question ID : 81616113497

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.

Essaouira's origins stretch back to prehistoric times, and this spot on Morocco's Atlantic coast (1)_____ a centre of culture and commerce ever since. (2)_____ centuries, the harbour town was an important trading post (3)_____ both a seaport and as the north-western terminus of a caravan (4)_____ stretching across the desert to Timbuktu (5)_____ Africa's interior.

SubQuestion No : 23

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

Ans ☒ 1. from

☒ 2. at

☒ 3. as

☒ 4. by

Question ID : 81616113498

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.

Essaouira's origins stretch back to prehistoric times, and this spot on Morocco's Atlantic coast (1)_____ a centre of culture and commerce ever since. (2)_____ centuries, the harbour town was an important trading post (3)_____ both a seaport and as the north-western terminus of a caravan (4)_____ stretching across the desert to Timbuktu (5)_____ Africa's interior.

SubQuestion No : 24

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

Ans ☒ 1. way

☒ 2. direction

☒ 3. highway

☒ 4. route

Question ID : 81616113499

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.

Essaouira's origins stretch back to prehistoric times, and this spot on Morocco's Atlantic coast (1)_____ a centre of culture and commerce ever since. (2)_____ centuries, the harbour town was an important trading post (3)_____ both a seaport and as the north-western terminus of a caravan (4)_____ stretching across the desert to Timbuktu (5)_____ Africa's interior.

SubQuestion No : 25

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

Ans

✓ 1. in

✗ 2. above

✗ 3. over

✗ 4. on

Question ID : 81616113500

Status : Answered

Chosen Option : 1