Combined Graduate Level Examination 2020 Tier-I

Roll Number	
Candidate Name	
Venue Name	Arwachin Bharti Bhawan Sr.Sec School
Exam Date	18/08/2021
Exam Time	3:00 PM - 4:00 PM
Subject	Combined Graduate Level Examination 2020 Tier 1

Section : **General Intelligence and Reasoning**

Q.1 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
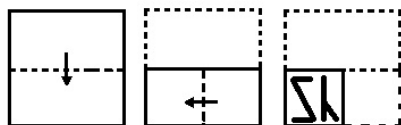
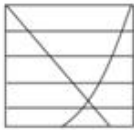Question ID : **81616112629**
Status : **Answered**
Chosen Option : **1**

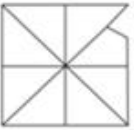**Q.2** Select the option in which the given figure is embedded (rotation is NOT allowed).
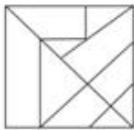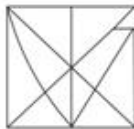

Ans

✗ 1.

✗ 2.

✗ 3.

✔ 4.

Question ID : **81616112627**

Status : **Answered**

Chosen Option : **2**

Q.3 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. BDYF

✔ 2. XZTB

✗ 3. TVQX

✗ 4. NPKR

Question ID : **81616113315**

Status : **Not Answered**

Chosen Option : **--**

Q.4 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. (Any operation on digits is not allowed)

Ans ✗ 1. 326 : 107

✗ 2. 239 : 78

✗ 3. 308 : 101

✔ 4. 197 : 66

Question ID : **81616112922**

Status : **Answered**

Chosen Option : **4**

Q.5 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Gravity
2. Glycogen
3. Gestation
4. Glycerine
5. Gesture

Ans ✔ 1. 3, 5, 4, 2, 1

✘ 2. 3, 2, 5, 1, 4

✘ 3. 3, 1, 2, 4, 5

✘ 4. 3, 5, 2, 4, 1

Question ID : **81616113314**
Status : **Answered**
Chosen Option : **1**

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

H, Q, I, T, K, ?, N

Ans ✔ 1. Y

✘ 2. A

✘ 3. U

✘ 4. J

Question ID : **81616112614**
Status : **Answered**
Chosen Option : **1**

Q.7 In a certain code language, 'VIRTUE' is written as 'DBZBNX'. How will 'OMINOUS' be written in that language?
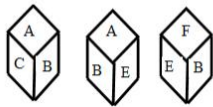
Ans ✘ 1. HBUVHNA

✔ 2. HUBVHNA

✘ 3. IBUHABM

✘ 4. IUBHMBA

Question ID : **81616113117**
Status : **Not Answered**
Chosen Option : **--**

Q.8 Three different positions of the same dice are shown, the faces of which are marked with the letters A, B, C, D , E and F.
Select the letter that will be on the face opposite to the face having the letter 'D'.

Ans ✓ 1. B

✗ 2. A

✗ 3. F

✗ 4. C

Question ID : **81616112929**
Status : **Answered**
Chosen Option : **1**

Q.9 Select the option in which the words share the same relationship as that shared by the given pair of words.

Jharkhand : Ranchi

Ans ✗ 1. Sikkim : Itanagar

✗ 2. Mizoram : Kohima

✗ 3. Assam : Jorhat

✓ 4. Meghalaya : Shillong

Question ID : **81616112611**
Status : **Answered**
Chosen Option : **4**

Q.10 Find the number of triangles in the given figure.
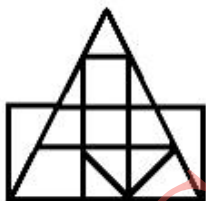
Ans ✗ 1. 14

✗ 2. 16

✗ 3. 20

✓ 4. 18

Question ID : **81616112928**
Status : **Not Answered**
Chosen Option : **--**

Q.11 Select the option in which the numbers are related in the same way as are the numbers of the following set.

(4, 10, 53)

Ans ✗ 1. (8, 20, 103)

✗ 2. (11, 31, 152)

✗ 3. (5, 13, 62)

✔ 4. (7, 19, 98)

Question ID : **81616112924**
Status : **Answered**
Chosen Option : **1**

Q.12 Select the number from among the given options that can replace the question mark (?) in the following series.

6, 6, 8, 24, 28, 140, ?

Ans ✗ 1. 144

✔ 2. 146

✗ 3. 145

✗ 4. 148

Question ID : **81616113324**
Status : **Not Answered**
Chosen Option : **--**

Q.13 Select the Venn diagram that best illustrates the relationship among the following classes.

Neptune, Planet, Moon

Ans

✗ 1.

✗ 2.

✔ 3.

✗ 4.

Question ID : **81616113135**
Status : **Answered**
Chosen Option : **3**

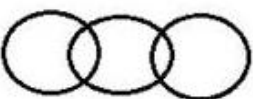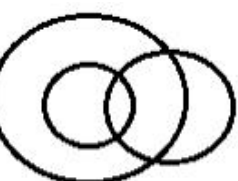**Q.14** Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.

16 : 8 :: 21 : ? :: 11 : 6

Ans ✗ 1. 11

✔ 2. 10

✗ 3. 9

✗ 4. 14

Question ID : **81616113123**
Status : **Not Answered**
Chosen Option : **--**

Q.15 Study the given pattern carefully and select the number that can replace the question mark (?) in it.

3 13 4
6 67 31
5 ? 20

Ans ✗ 1. 40

✔ 2. 45

✗ 3. 50

✗ 4. 55

Question ID : **81616113125**
Status : **Not Answered**
Chosen Option : **--**

Q.16 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:
Some mats are carpets.
Some carpets are blankets.
No blanket is a quilt.

Conclusions:
I. No quilt is a carpet.
II. No blanket is a mat.
III. Some carpets are mats.

Ans ✗ 1. Both conclusions I and III follow

✔ 2. Only conclusion III follows

✗ 3. Only conclusion II follows

✗ 4. Only conclusion I follows

Question ID : **81616113121**
Status : **Answered**
Chosen Option : **2**

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.**

Circle : Arc : : Plant : ?
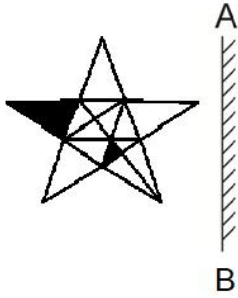
Ans ✗ 1. Plasma

✗ 2. Tree

✗ 3. Chlorophyll

✓ 4. Stem

Question ID : **81616113317**
Status : **Answered**
Chosen Option : **2**

Q.18 Select the correct mirror image of the given figure when the mirror is placed at 'AB' as shown.

Ans

✗ 1.

✗ 2.

✔ 3.

✗ 4.
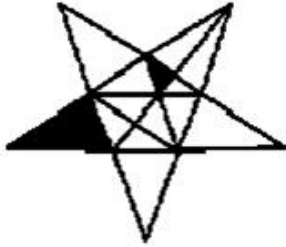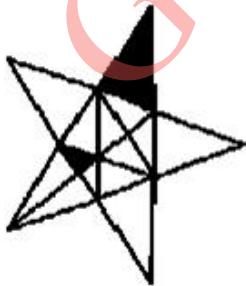
Question ID : **81616112628**
Status : **Answered**
Chosen Option : **3**

Q.19 Select the correct combination of mathematical signs that can sequentially replace the * signs and balance the equation.

483 * 23 * 93 * 16 * 4 * 50

Ans ✗ 1. ÷, +, -, =, ×

✔ 2. ÷, +, -, ×, =

✗ 3. +, ÷, -, ×, =

✗ 4. ÷, -, +, ×, =

Question ID : **81616112925**

Status : **Not Answered**

Chosen Option : **--**

Q.20 The present age of Ramesh is 7 years more than the present age of his wife Sangeeta. 6 years hence, the age of Ramesh will be three times that of his son Mayank. If the present age of Mayank is 10 years, then what is the present age of Sangeeta?

Ans ✗ 1. 48 years

✔ 2. 35 years

✗ 3. 42 years

✗ 4. 30 years

Question ID : **81616112623**

Status : **Answered**

Chosen Option : **2**

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

CUH, HQK, MMN, RIQ, ?

Ans ✗ 1. UDS

✗ 2. XFS

✔ 3. WET

✗ 4. VGT

Question ID : **81616112606**

Status : **Answered**

Chosen Option : **3**

Q.22 In a certain code language, 'REFUSAL' is coded as '2101239103' and 'POETRY' is coded as '1067927'. How will 'PROFIT' be coded in that language?

Ans ✔ 1. 12186792

✗ 2. 81217629

✗ 3. 18216972

✗ 4. 21671829

Question ID : **81616112916**

Status : **Not Answered**

Chosen Option : **--**

Q.23 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. Zeal

✔ 2. Vision

✗ 3. Fury

✗ 4. Devotion

Question ID : **81616112912**
Status : **Not Answered**
Chosen Option : **--**

Q.24 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 : **81616113331**
Status : **Not Answered**
Chosen Option : **--**

Q.25 Rani is the sister of Piyush and the daughter of Kamal. Kamal is the son of Gaurav and the brother of Aryan. Aryan is the father of Rajneesh. How is Aryan related to Piyush?

Ans ✗ 1. Brother

✗ 2. Father

✗ 3. Paternal Grandfather

✔ 4. Paternal Uncle

Question ID : **81616112615**
Status : **Not Answered**
Chosen Option : **--**

Section : **General Awareness**

Q.1 In which of the following years was the Indian Independence Act passed by the British Parliament?

Ans ✗ 1. 1945

✓ 2. 1947

✗ 3. 1942

✗ 4. 1946

Question ID : **81616113148**
Status : **Answered**
Chosen Option : **4**

Q.2 The total membership of the Constituent Assembly was 389, of which _____ were representatives of princely states.

Ans ✗ 1. 84

✗ 2. 109

✓ 3. 93

✗ 4. 102

Question ID : **81616112650**
Status : **Not Answered**
Chosen Option : **--**

Q.3 Who among the following became the co-chair of 17th ASEAN-India Summit in November 2020?

Ans ✓ 1. The Prime Minister of India

✗ 2. The Chief Justice of India

✗ 3. The Speaker of the Lok Sabha

✗ 4. The President of India

Question ID : **81616112654**
Status : **Answered**
Chosen Option : **1**

Q.4 Which of the following states' tourism ministry announced the launch of India's first Labour Movement Museum in January 2021?

Ans ✗ 1. West Bengal

✗ 2. Odisha

✓ 3. Kerala

✗ 4. Karnataka

Question ID : **81616113362**
Status : **Answered**
Chosen Option : **2**

Q.5 Which of the following is a coarse grained igneous rock that contains quarts and feldspar?

Ans ✔ 1. Granite

✘ 2. Basalt

✘ 3. Andesite

✘ 4. Marble

Question ID : **81616113349**
Status : **Answered**
Chosen Option : **2**

Q.6 _____ is the pattern of veins in the blade of a leaf.

Ans ✘ 1. Cytology

✘ 2. Anthology

✘ 3. Morphology

✔ 4. Venation

Question ID : **81616113143**
Status : **Answered**
Chosen Option : **4**

Q.7 Which of the following acids is used in the purification of gold and silver?

Ans ✘ 1. Formic acid

✔ 2. Nitric acid

✘ 3. Maleic acid

✘ 4. Acetic acid

Question ID : **81616113140**
Status : **Answered**
Chosen Option : **2**

Q.8 Which of the following states inaugurated its first bird festival 'Kalrav' in January 2021?

Ans ✘ 1. Tripura

✘ 2. Odisha

✘ 3. Assam

✔ 4. Bihar

Question ID : **81616113136**
Status : **Answered**
Chosen Option : **1**

Q.9 What was the name of the women's regiment in the Indian National Army founded by Subhash Chandra Bose?

Ans ✘ 1. Rani Ahalyabai Regiment

✘ 2. Rani of Didda Regiment

✔ 3. Rani of Jhansi Regiment

✘ 4. Rani Padmawati Regiment

Question ID : **81616112645**
Status : **Not Answered**
Chosen Option : **--**

Q.10 What was the name of the first artificial satellite launched by India in 1975?

Ans ✗ 1. Sushruta

✗ 2. Panini

✗ 3. Charaka

✓ 4. Aryabhatta

Question ID : **81616112639**

Status : **Answered**

Chosen Option : **4**

Q.11 In which of the following states is the Kolleru Lake located?

Ans ✗ 1. Tamil Nadu

✗ 2. Kerala

✗ 3. Madhya Pradesh

✓ 4. Andhra Pradesh

Question ID : **81616112943**

Status : **Answered**

Chosen Option : **2**

Q.12 Who was appointed as the middle and long distance coach of the Indian athletics team in January 2021?

Ans ✗ 1. Radhakrishnan Nair

✗ 2. Adille Sumariwalla

✓ 3. Nikolai Snesarev

✗ 4. Amrish Kumar

Question ID : **81616113157**

Status : **Not Answered**

Chosen Option : **--**

Q.13 In which of the following Indian states will you find the 'Kunchikal Falls'?

Ans ✗ 1. Telangana

✗ 2. Kerala

✗ 3. Tamil Nadu

✓ 4. Karnataka

Question ID : **81616112641**

Status : **Not Answered**

Chosen Option : **--**

Q.14 SP Balasubramaniam was a _____ who was conferred with the Padma Vibhushan posthumously in January 2021.

Ans ✔ 1. singer

✘ 2. scientist

✘ 3. archaeologist

✘ 4. painter

Question ID : **81616113354**

Status : **Answered**

Chosen Option : **4**

Q.15 Who among the following Indian actors was honoured with the 'Best Actor' award at the Indo-German Film week held in Europe in 2020?

Ans ✘ 1. Shah Rukh Khan

✔ 2. Adil Hussain

✘ 3. Salman Khan

✘ 4. Sanjay Dutt

Question ID : **81616112648**

Status : **Answered**

Chosen Option : **3**

Q.16 When we cut an onion, the vegetable emits an odour and our eyes tear up. Which of the following compounds is responsible for the tears and odour resulting from freshly cut onions?

Ans ✘ 1. Ascorbic acid

✔ 2. Sulphuric acid

✘ 3. Citric acid

✘ 4. Acetic acid

Question ID : **81616113343**

Status : **Answered**

Chosen Option : **2**

Q.17 Makaravilakku is an annual festival held on Makar Sakranti in which of the following states?

Ans ✘ 1. Tamil Nadu

✘ 2. Odisha

✘ 3. Karnataka

✔ 4. Kerala

Question ID : **81616112935**

Status : **Answered**

Chosen Option : **3**

Q.18 According to Malthusian theory which of the following grows in geometric progression?

Ans   ✗ 1. Food supply

    ✓ 2. Population

    ✗ 3. Employment

    ✗ 4. Poverty

> Question ID : **81616112633**
> Status : **Answered**
> Chosen Option : **2**

Q.19 Who among the following was the first Finance Minister of the Independent India?

Ans   ✓ 1. RK Shanmukham Chetty

    ✗ 2. CD Deshmukh

    ✗ 3. Liaquat Ali Khan

    ✗ 4. KC Neogy

> Question ID : **81616112947**
> Status : **Answered**
> Chosen Option : **1**

Q.20 On which of the following days is National Disaster Response Force Raising Day celebrated annually?

Ans   ✗ 1. 23 October

    ✓ 2. 19 January

    ✗ 3. 21 September

    ✗ 4. 6 March

> Question ID : **81616113360**
> Status : **Not Answered**
> Chosen Option : **--**

Q.21 Which of the following Articles of the Constitution of India defines for a separate secretarial staff for each House of the Parliament?

Ans   ✗ 1. Article 34

    ✓ 2. Article 98

    ✗ 3. Article 155

    ✗ 4. Article 123

> Question ID : **81616112952**
> Status : **Answered**
> Chosen Option : **3**

Q.22 Which of the following states launched the scheme 'Sujal - Drink from Tap Mission' that aims to provide quality drinking water directly from tap to all households in urban areas?

Ans ✔ 1. Odisha

✖ 2. West Bengal

✖ 3. Uttar Pradesh

✖ 4. Bihar

Question ID : **81616112940**
Status : **Answered**
Chosen Option : **1**

Q.23 Who has been re-appointed as the MD and CEO of the RBL Bank in January 2021 for three years?

Ans ✖ 1. Deepak Ruiya

✖ 2. Rajeev Arora

✖ 3. Rajeev Ahuja

✔ 4. Vishwavir Ahuja

Question ID : **81616112937**
Status : **Not Answered**
Chosen Option : **--**

Q.24 Who among the following established the Rashtrakuta Kingdom?

Ans ✔ 1. Dantidurga

✖ 2. Krishna I

✖ 3. Ashoka

✖ 4. Amoghavarsha

Question ID : **81616113151**
Status : **Answered**
Chosen Option : **4**

Q.25 In which of the following countries was the headquarters of International Olympic Committee located as of February 2021?

Ans ✖ 1. China

✖ 2. The US

✖ 3. Japan

✔ 4. Switzerland

Question ID : **81616113358**
Status : **Answered**
Chosen Option : **3**

Section : **Quantitative Aptitude**

Q.1 Study the table and answer the question.

The data given in the table shows the number of students studying in four different disciplines in 5 institutes.

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

Number of students studying commerce in institute D is what percent of the total number of students of the 5 institutes?

Ans ✔ 1. 5.5

✘ 2. 5.3

✘ 3. 27.7

✘ 4. 20.1

Question ID : **81616112680**
Status : **Answered**
Chosen Option : **1**

Q.2 In $\triangle ABC$, AB and AC are produced to points D and E respectively. If the bisectors of angle CBD and angle BCE meet at point O, such that $\angle BOC = 63°$, then $\angle A = ?$

Ans ✘ 1. 36°

✘ 2. 27°

✔ 3. 54°

✘ 4. 63°

Question ID : **81616113379**
Status : **Answered**
Chosen Option : **3**

Q.3 Simplify the expression $441 \div \left[270 \div \frac{3}{7} + \left(17 \div \frac{1}{3}\right) - \left(8\frac{1}{2} - \frac{5}{2}\right)\right]$

Ans ✘ 1. $\dfrac{39}{75}$

✘ 2. $\dfrac{29}{75}$

✘ 3. $\dfrac{19}{75}$

✔ 4. $\dfrac{49}{75}$

Question ID : **81616113364**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.4 Points A and B are on a circle with centre O. Point C is on the major arc AB. If $\angle OAC = 35°$ and $\angle OBC = 45°$, then what is the measure (in degrees) of the angle subtended by the minor arc AB at the centre?

Ans

✗ 1. 70

✔ 2. 160

✗ 3. 80

✗ 4. 100

Question ID : **81616112670**
Status : **Not Answered**
Chosen Option : --

Q.5 The given Pie-Chart shows the degree wise breakup of expenditure of a family in a month. Total income of a family is ₹43,200.

Degree of amount incurred in different Expenditure (Total ₹ 43,200)

45 70 80 105 60

■ Rent
■ Food
■ Education
■ Saving
■ Miscellane ous
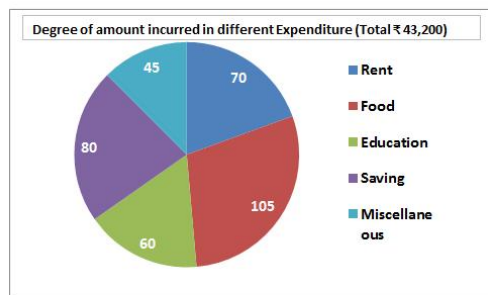
Expenditure on food is what percent more than expenditure on rent?

Ans

✗ 1. $\dfrac{200}{3}\%$

✗ 2. $\dfrac{100}{3}\%$

✔ 3. 50%

✗ 4. $\dfrac{50}{3}\%$

Question ID : **81616113687**
Status : **Not Answered**
Chosen Option : --

Q.6 Five men can complete a work in 20 days. Ten women can complete the same work in 15 days. Two men and six women started working together. After 5 days, three women left the work and a new man joined the work. The group continued working together till the end of the work. In how many days will they be able to do the remaining work?

Ans

✗ 1. $16\dfrac{2}{3}$

✔ 2. 14

✗ 3. $18\dfrac{1}{3}$

✗ 4. 19

Question ID : **81616112967**
Status : **Not Answered**
Chosen Option : --

Q.7 A T.V. is sold at 8% gain. Had it been sold for ₹2553 less; there would have been loss of 15%. To gain 18%, the selling price (in ₹) of T.V. would be:

Ans

✔ 1. 13098

✘ 2. 15000

✘ 3. 9102

✘ 4. 11100

Question ID : **81616113368**

Status : **Not Answered**

Chosen Option : **--**

Q.8 If a train runs with the speed of 72 km/h, it reaches its destination late by 15 minutes. However, if its speed is 90 km/h, it is late by only 5 minutes. The correct time to cover its journey in minutes is:

Ans

✘ 1. 45

✘ 2. 40

✔ 3. 35

✘ 4. 32

Question ID : **81616113170**

Status : **Not Answered**

Chosen Option : **--**

Q.9 What is the length (in cm) of the smallest altitude of the triangle whose sides are 5 cm, 12 cm and 13 cm? (correct to one decimal place)

Ans

✘ 1. 12.0

✘ 2. 5.1

✘ 3. 2.6

✔ 4. 4.6

Question ID : **81616112666**

Status : **Answered**

Chosen Option : **2**

Q.10 In a right angled triangle ABC, the lengths of the sides containing the right angle are 5 cm and 12 cm respectively. A circle is inscribed in the triangle ABC. What is the radius of the circle (in cm)?

Ans

✔ 1. 2

✘ 2. 2.8

✘ 3. 2.5

✘ 4. 3

Question ID : **81616112673**

Status : **Answered**

Chosen Option : **3**

Q.11 Alloy A contains metals x and y in the ratio 5 : 2 and alloy B contains these metals in the ratio 3 : 4. Alloy C is prepared by mixing A and B in the ratio 4 : 5. The percentage of y in alloy C is:

Ans

✗ 1. $55\dfrac{5}{9}\%$

✗ 2. $33\dfrac{4}{9}\%$

✔ 3. $44\dfrac{4}{9}\%$

✗ 4. $66\dfrac{4}{9}\%$

Question ID : **81616113167**
Status : **Answered**
Chosen Option : **3**

Q.12 Keshav, Surjeet and Thomas started a business with investments in the ratio 2 : 3 : 4. The ratio of their period of investments is 5 : 6 : 9. Twenty percent of the profit was spent on rent and maintenance of the office. Remaining profit was distributed among themselves. If the difference in the shares of profit of Keshav and Surjeet is ₹7264, then how much is the total profit (in ₹)?

Ans

✔ 1. 72640

✗ 2. 46490

✗ 3. 51060

✗ 4. 58112

Question ID : **81616112963**
Status : **Not Answered**
Chosen Option : **--**

Q.13 If $a + b + c = 0$, then what is the value of $\dfrac{(b+c)^2}{bc} + \dfrac{(c+a)^2}{ca} + \dfrac{(a+b)^2}{ab}$?

Ans

✗ 1. 1

✗ 2. -3

✗ 3. -1

✔ 4. 3

Question ID : **81616113173**
Status : **Not Answered**
Chosen Option : **--**

Q.14 If $x - \frac{1}{x} = \sqrt{77}$, then one of the values of $x^3 + \frac{1}{x^3}$ is :

Ans ✗ 1. $80\sqrt{77}$

✔ 2. -702

✗ 3. $77\sqrt{77}$

✗ 4. $3\sqrt{77}$

Question ID : **81616112972**
Status : **Not Answered**
Chosen Option : **--**

Q.15 The average daily production of toys in a factory in the month of December is 512. If the average production during first 20 days is 515 and that of the last 13 days is 510, then what is the average of production on 19 and 20 December?

Ans ✗ 1. 1058

✗ 2. 513

✔ 3. 529

✗ 4. 512

Question ID : **81616112658**
Status : **Not Answered**
Chosen Option : **--**

Q.16 A sum of money was lent in two parts in the ratio 4 : 5 for 4 years and 5 years respectively, both at the rate of 8% per annum simple interest. If the difference between the interests earned from the two parts is ₹ 4680, then what was the total sum lent (in ₹)?

Ans ✔ 1. 58500

✗ 2. 42120

✗ 3. 46800

✗ 4. 65000

Question ID : **81616112966**
Status : **Not Answered**
Chosen Option : **--**

Q.17 A shopkeeper bought a machine for ₹4600 and spent ₹500 on its repairs and transport. He marked the machine at 8% above the overall cost price. If he sold the machine for ₹4681.80 after giving $x\%$ discount, then the value of x is:

Ans ✔ 1. 15

✗ 2. 20

✗ 3. 12

✗ 4. 18

Question ID : **81616113164**
Status : **Not Answered**
Chosen Option : **--**

Q.18 In a circle with centre O, AB and CD are parallel chords on the opposite sides of a diameter. If AB = 12 cm, CD = 18 cm and the distance between the chords AB and CD is 15 cm, then find the radius of the circle (in cm).

Ans

✗ 1. $9\sqrt{13}$

✗ 2. 9

✔ 3. $3\sqrt{13}$

✗ 4. 12

Question ID : **81616112974**
Status : **Not Answered**
Chosen Option : **--**

Q.19 If $\sin(A + B) = 1$ and $\cos(A - B) = \frac{\sqrt{3}}{2}$, $A + B \leq 90°$ and $A > B$, then the value of

$\frac{5\sin^2 B + 4\tan^2 A}{2\sin B \cos A}$ is :

Ans

✗ 1. $16\frac{1}{2}$

✗ 2. 18

✗ 3. 20

✔ 4. $26\frac{1}{2}$

Question ID : **81616113887**
Status : **Not Answered**
Chosen Option : **--**

Q.20 If $\sin^6 \theta + \cos^6 \theta = \frac{1}{3}$, $0° < \theta < 90°$, then what is the value of $\sin \theta \cos \theta$?

Ans

✔ 1. $\frac{\sqrt{2}}{3}$

✗ 2. $\frac{\sqrt{6}}{6}$

✗ 3. $\frac{\sqrt{2}}{\sqrt{3}}$

✗ 4. $\frac{2}{9}$

Question ID : **81616112977**
Status : **Not Answered**
Chosen Option : **--**

Q.21 If $a^3 - b^3 = 2349$ and $(a - b) = 9$, then $(a + b)^2 - ab$ is equal to:

Ans ✗ 1. 280

✗ 2. 244

✔ 3. 261

✗ 4. 229

Question ID : **81616113374**

Status : **Answered**

Chosen Option : **3**

Q.22 If a number P is divisible by 2 and another number Q is divisible by 3, then which of the following is true?

Ans ✗ 1. P+Q is divisible by 6

✗ 2. P+Q is divisible by 5

✔ 3. PxQ is divisible by 6

✗ 4. PxQ is divisible by 5

Question ID : **81616112959**

Status : **Answered**

Chosen Option : **3**

Q.23 Study the table and answer the question.

The table shows the daily income of 50 persons.

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

How many persons earn ₹250 or more but less than ₹350 daily?

Ans ✗ 1. 18

✗ 2. 24

✗ 3. 28

✔ 4. 14

Question ID : **81616112678**

Status : **Answered**

Chosen Option : **2**

Q.24

$$(\sec\theta+\tan\theta)^2 + \frac{1+\csc\theta}{1-\csc\theta},$$

$0° < \theta < 90°$ is:

Ans

✔ 1. 0

✘ 2. -2

✘ 3. 1

✘ 4. 2

Question ID : **81616112473**

Status : **Answered**

Chosen Option : **3**

Q.25 The following table shows the daily seats occupancy in different classes of a train. Numbers in bracket represent the total seats available for a particular class.

Day	2nd Class Non-AC (900)	1st Class Non-AC (500)	AC III Tier (500)	AC II Tier (250)	AC 1st Class (150)
Monday	850	460	480	240	145
Tuesday	840	400	450	230	120
Wednesday	830	390	480	220	130
Thursday	790	480	490	250	125
Friday	840	470	500	210	130

What is the ratio of number of seats that remained vacant in all the Non-AC classes on Wednesday and Thursday taken together to number of seats remained vacant in AC classes on Monday, Tuesday and Friday?

Ans

✘ 1. 62 : 35

✘ 2. 39 : 62

✔ 3. 62 : 39

✘ 4. 35 : 62

Question ID : **81616113689**

Status : **Not Answered**

Chosen Option : **--**

Section : **English Comprehension**

Q.1 Select the option that expresses the given sentence in indirect speech.

Raj said to his friend, "Please help me in this task."

Ans

✔ 1. Raj requested his friend to help him in that task.

✘ 2. Raj ordered his friend to help him in this task.

✘ 3. Raj threatened his friend to help him in this task.

✘ 4. Raj said to his friend please help me in this task.

Question ID : **81616112684**

Status : **Answered**

Chosen Option : **1**

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

She knew that to apologise would _____ to admitting she had failed.

Ans ✔ 1. tantamount

✘ 2. tandem

✘ 3. tantalising

✘ 4. tangible

> Question ID : **81616112706**
> Status : **Answered**
> Chosen Option : **2**

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

It was difficult to _____ Gopal to watch a horror movie.

Ans ✘ 1. consult

✘ 2. dissuade

✔ 3. persuade

✘ 4. confer

> Question ID : **81616113008**
> Status : **Answered**
> Chosen Option : **3**

Q.4 Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'.

Fifty litres of milk <u>are donated by the committee</u> to the orphanage every week.

Ans ✘ 1. are donated by a committee

✘ 2. are being donated by the committee

✘ 3. No substitution

✔ 4. is donated by the committee

> Question ID : **81616112686**
> Status : **Answered**
> Chosen Option : **4**

Q.5 Select the option that can be used as a one-word substitute for the given group of words.

An imaginary ideal society free of poverty and suffering

Ans ✘ 1. Dreamland

✘ 2. Heaven

✘ 3. Paradise

✔ 4. Utopia

> Question ID : **81616113005**
> Status : **Answered**
> Chosen Option : **4**

Q.6 **The following sentence has been split into four segments. Identify the segment that contains a grammatical error.**

The weather / is much / more warmer / than it was a few days before.

Ans ✗ 1. than it was a few days before

✗ 2. is much

✗ 3. The weather

✓ 4. more warmer

Question ID : **81616112985**

Status : **Answered**

Chosen Option : **4**

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

Fair and square

Ans ✗ 1. Calm and quiet

✗ 2. Beautiful in appearance

✗ 3. By any means available

✓ 4. According to the rules

Question ID : **81616113205**

Status : **Answered**

Chosen Option : **4**

Q.8 **Select the option that will improve the underlined part of the given sentence. In case no improvement is needed select 'No improvement required'.**

He fell over in studies owing to his illness.

Ans ✓ 1. fell behind

✗ 2. fell for

✗ 3. No improvement required

✗ 4. fell out

Question ID : **81616112988**

Status : **Answered**

Chosen Option : **1**

Q.9 **Select the most appropriate ANTONYM of the given word.**

Hassled

Ans ✗ 1. Annoyed

✗ 2. Worried

✓ 3. Relaxed

✗ 4. Stressed

Question ID : **81616113203**

Status : **Answered**

Chosen Option : **3**

Q.10 Select the most appropriate synonym of the given word.

Calm

Ans   ✗ 1. Cranky

      ✓ 2. Relaxed

      ✗ 3. Joyful

      ✗ 4. Clean

	Question ID : **81616112695**
	Status : **Answered**
	Chosen Option : **2**

Q.11 Select the INCORRECTLY spelt word.

Ans   ✗ 1. Sentimentally

      ✗ 2. Substantially

      ✓ 3. Subseqently

      ✗ 4. Solicitation

	Question ID : **81616113411**
	Status : **Answered**
	Chosen Option : **3**

Q.12 Select the option that expresses the given sentence in active voice.

I am paid weekly by my organisation.

Ans   ✗ 1. My organisation paid me weekly.

      ✗ 2. My organisation would pay me weekly.

      ✗ 3. My organisation will pay me weekly.

      ✓ 4. My organisation pays me weekly.

	Question ID : **81616112986**
	Status : **Answered**
	Chosen Option : **4**

Q.13 Select the most appropriate synonym of the given word.

Poignant

Ans   ✗ 1. Quiet

      ✗ 2. Beautiful

      ✓ 3. Touching

      ✗ 4. Happy

	Question ID : **81616112696**
	Status : **Answered**
	Chosen Option : **2**

Q.14 Select the INCORRECTLY spelt word.

Ans   ✗ 1. Approval

       ✗ 2. Censure

       ✗ 3. Criticism

       ✓ 4. Hellicopter

Question ID : **81616113410**

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. When it was time to divide the spoils, the lion took one portion for his title as king of the forest.
B. He took another portion because he was a partner, and yet another because he was the strongest.
C. He took the last portion because an accident would befall anyone who laid a paw upon it.
D. Once a lion went hunting with three other beasts.

Ans   ✗ 1. CABD

       ✓ 2. DABC

       ✗ 3. BDCA

       ✗ 4. DCBA

Question ID : **81616113400**

Status : **Answered**

Chosen Option : **2**

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

Fallacy

Ans   ✗ 1. Cheat

       ✗ 2. Flaw

       ✗ 3. Trick

       ✓ 4. Truth

Question ID : **81616113404**

Status : **Answered**

Chosen Option : **4**

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. The festival is named after the Indian Hornbill.
B. The Hornbill festival is the most anticipated cultural carnival of this state.
C. Located in Northeast India, Nagaland is very a beautiful and an ethnically diverse state.
D. The Hornbill is often displayed on the traditional tribal headgears worn during Naga festivities.

Ans   ✘ 1. ACBD

✘ 2. BCAD

✘ 3. ABCD

✔ 4. CBAD

Question ID : **81616113199**
Status : **Answered**
Chosen Option : **4**

Q.18 Select the option that can be used as a one-word substitute for the given group of words.

A dynamic campaign for political, social or religious change

Ans   ✘ 1. Conflict

✘ 2. War

✘ 3. Mutiny

✔ 4. Crusade

Question ID : **81616113004**
Status : **Answered**
Chosen Option : **3**

Q.19 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The visitors complained / at the poor accommodation / they were provided / during the tour.

Ans   ✔ 1. at the poor accommodation

✘ 2. The visitors complained

✘ 3. during the tour

✘ 4. they were provided

Question ID : **81616113186**
Status : **Answered**
Chosen Option : **1**

Q.20 Select the most appropriate meaning of the given idiom.

Sit on the fence

Ans   ✘ 1. Poke fun at people

✘ 2. Protect something

✘ 3. Create conflicts

✔ 4. Avoid making a decision

Question ID : **81616113204**
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.

The first human beings to control fire gradually learned (1)_____ many uses. Not only did they (2)_____ fire to keep warm and cook their food; they (3)_____ learned to use it in hunting or warfare, to kill insects, to (4)_____ berries, and to clear forests of underbrush so that game (5)_____ be better seen and hunted. Eventually they learned that the burning of brush produced better grasslands and therefore more game.

SubQuestion No : 21

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

Ans ✔ 1. its

✗ 2. his

✗ 3. your

✗ 4. their

Question ID : **81616113395**
Status : **Answered**
Chosen Option : **1**

Comprehension:

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

The first human beings to control fire gradually learned (1)_____ many uses. Not only did they (2)_____ fire to keep warm and cook their food; they (3)_____ learned to use it in hunting or warfare, to kill insects, to (4)_____ berries, and to clear forests of underbrush so that game (5)_____ be better seen and hunted. Eventually they learned that the burning of brush produced better grasslands and therefore more game.

SubQuestion No : 22

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

Ans ✔ 1. use

✗ 2. ready

✗ 3. used

✗ 4. prepare

Question ID : **81616113396**
Status : **Answered**
Chosen Option : **1**

Comprehension:

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

The first human beings to control fire gradually learned (1)_____ many uses. Not only did they (2)_____ fire to keep warm and cook their food; they (3)_____ learned to use it in hunting or warfare, to kill insects, to (4)_____ berries, and to clear forests of underbrush so that game (5)_____ be better seen and hunted. Eventually they learned that the burning of brush produced better grasslands and therefore more game.

SubQuestion No : 23

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

Ans ✗ 1. instead

✔ 2. also

✗ 3. well

✗ 4. alternative

Question ID : **81616113397**
Status : **Answered**
Chosen Option : **2**

Comprehension:

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

The first human beings to control fire gradually learned (1)_____ many uses. Not only did they (2)_____ fire to keep warm and cook their food; they (3)_____ learned to use it in hunting or warfare, to kill insects, to (4)_____ berries, and to clear forests of underbrush so that game (5)_____ be better seen and hunted. Eventually they learned that the burning of brush produced better grasslands and therefore more game.

SubQuestion No : 24

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

Ans ✗ 1. attain

✗ 2. acquire

✔ 3. safeguard

✗ 4. obtain

Question ID : **81616113398**
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.

The first human beings to control fire gradually learned (1)_____ many uses. Not only did they (2)_____ fire to keep warm and cook their food; they (3)_____ learned to use it in hunting or warfare, to kill insects, to (4)_____ berries, and to clear forests of underbrush so that game (5)_____ be better seen and hunted. Eventually they learned that the burning of brush produced better grasslands and therefore more game.

SubQuestion No : 25

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

Ans ✖ 1. must

✖ 2. shall

✔ 3. could

✖ 4. will

Question ID : **81616113399**
Status : **Answered**
Chosen Option : **3**