

Combined Graduate Level Examination 2024 Tier I

Exam Date	13/09/2024
Exam Time	9:00 AM - 10:00 AM
Subject	Combined Graduate Level Examination Tier I

Section : General Intelligence and Reasoning

Q.1 Which of the following interchanges of numbers (not digits) would make the given equation correct?

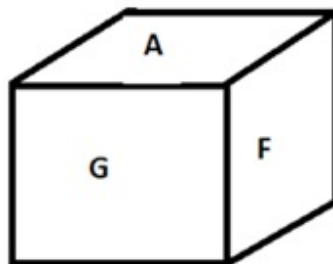
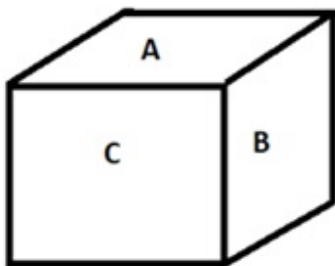
$$\frac{480 \div 0.3 \times 5 + 500}{190 + 9 \times 27 \div 1.6} = 2$$

- Ans
- ☐ 1. 500 and 190
 - ☒ 2. 0.3 and 1.6
 - ☐ 3. 27 and 480
 - ☐ 4. 5 and 9

Q.2 In a certain code language, 'mountain stand tall' is coded as '33 66 44'; 'rocky is tall' is coded as '44 55 11' and 'rocky is mountain' is coded as '33 55 11'. How is 'stand' coded in that language?

- Ans
- ☐ 1. 33
 - ☒ 2. 66
 - ☐ 3. 44
 - ☐ 4. 11

Q.3 Six letters A, B, C, E, F and G are written on different faces of a dice. Two positions of this dice are shown in the figure below. Find the letter on the face opposite to A.



- Ans
- ☐ 1. F
 - ☒ 2. E
 - ☐ 3. C
 - ☐ 4. G

Q.4 The position(s) of how many letters will remain unchanged if all the letters in the word 'GRIMACE' are arranged in English alphabetical order?

- Ans
- ☐ 1. Two
 - ☒ 2. Zero
 - ☐ 3. One
 - ☐ 4. Three

Q.5 Select the option that can replace the question mark (?) in the following series.
AH21, CJ18, EL15, GN12, ?

- Ans**
- ✓ 1. J8
 - ✓ 2. IP9
 - ✗ 3. HR11
 - ✗ 4. HQ10

Q.6 'Ample' is related to 'Abundant' in the same way as 'Substantial' is related to '_____'.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

- Ans**
- ✓ 1. Considerable
 - ✗ 2. Meager
 - ✗ 3. Scarce
 - ✗ 4. Venerable

Q.7 Select the number from among the given options that can replace the question mark (?) in the following series.
30, 20, ?, 60, 140

- Ans**
- ✓ 1. 30
 - ✗ 2. 35
 - ✗ 3. 40
 - ✗ 4. 25

Q.8 Which figure should replace the question mark (?) if the following series were to be continued?

A	L	U	A	
B L U E	A B E M	M A B T	U M T L	?
M	U	L	B	

- Ans**
- ✓ 1.

B
L U M H
A
 - ✗ 2.

U
B T M A
L
 - ✗ 3.

U
A T M B
L
 - ✗ 4.

B
M T L H
A

Q.9 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.
Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.

- Ans**
- ☒ 1. LKF
 - ☐ 2. YXT
 - ☐ 3. NMI
 - ☐ 4. SRN

Q.10 Select the pair in which the numbers are related to each other in the same way as are the numbers in the given pairs.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
3 : 25
4 : 62

- Ans**
- ☐ 1. 9 : 731
 - ☒ 2. 5 : 123
 - ☐ 3. 7 : 345
 - ☐ 4. 6 : 218

Q.11 Three of the following numbers are alike in a certain way and one is different. Pick the odd one out.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans**
- ☐ 1. $31 - 5 = 160$
 - ☒ 2. $27 - 9 = 243$
 - ☐ 3. $21 - 4 = 89$
 - ☐ 4. $13 - 8 = 109$

Q.12 Select the option that represents the letters that when sequentially placed from left to right in the blanks below will complete the letter series.

_ X _ F _ _ _ X T _ X _

- Ans**
- ☐ 1. FXXTFXT
 - ☒ 2. FTXTFFT
 - ☐ 3. XFTTXFX
 - ☐ 4. XTTFXFX

Q.13 In a certain code language, 'HUSBAND' is written as 'JVUDBPF' and 'SISTER' is written as 'UJUVFT'. How will 'BROTHER' be written in that language?

- Ans**
- ☐ 1. DJTFPTV
 - ☒ 2. DTPVJFT
 - ☐ 3. TFVJTPD
 - ☐ 4. FJPVDTT

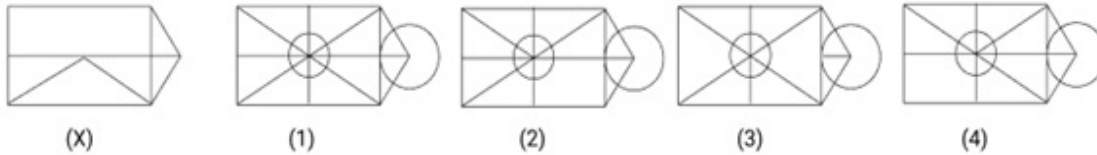
Q.14 What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $315 \times 15 - 93 + 16 \div 7 = ?$

- Ans**
- ☐ 1. 4
 - ☐ 2. 8
 - ☒ 3. 2
 - ☐ 4. 12

Q.15 In a certain code language,
 $X + Y$ means 'X is the father of Y',
 $X - Y$ means 'X is the brother of Y',
 $X \times Y$ means 'X is the sister of Y',
 $X \div Y$ means 'X is the wife of Y'.
Based on the above, how is D related to H if ' $D \times E \div F + G - H$ '?

- Ans**
- ☒ 1. Sister
 - ☒ 2. Father's sister
 - ☒ 3. Mother's sister
 - ☒ 4. Mother's mother

Q.16 Figure X is followed by four figures numbered (1), (2), (3), (4). Identify the figure among the four in which figure X is embedded (i.e. contains figure X in the same form).



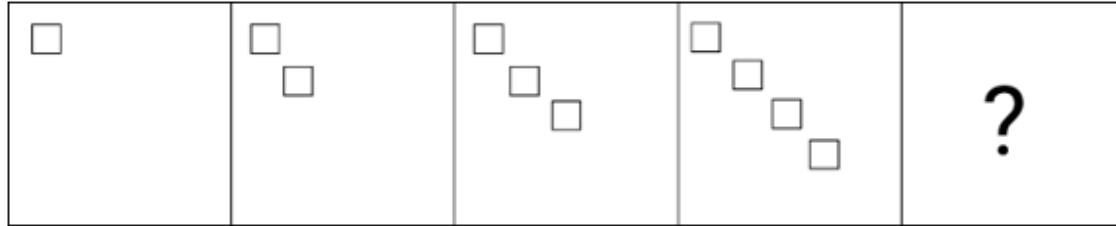
- Ans**
- ☒ 1. 1
 - ☒ 2. 3
 - ☒ 3. 2
 - ☒ 4. 4

Q.17 Which of the following terms will replace the question mark (?) in the given series?
KES, MIQ, PMN, TQJ, YUE, ?

- Ans**
- ☒ 1. EXY
 - ☒ 2. FYX
 - ☒ 3. EYY
 - ☒ 4. EXZ

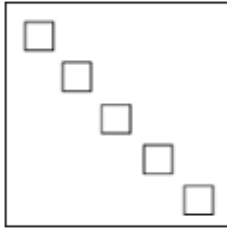
Q.18

Identify the figure given in the options which when put in place of ? will logically complete the series.

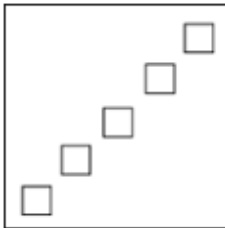


Ans

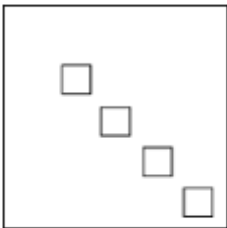
✓ 1.



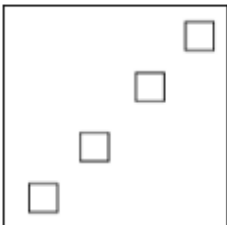
✗ 2.



✗ 3.



✗ 4.



Q.19 Select the set in which the numbers are related in the same way as are the numbers of the following set.

7 — 14 — 23

4 — 11 — 20

NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans

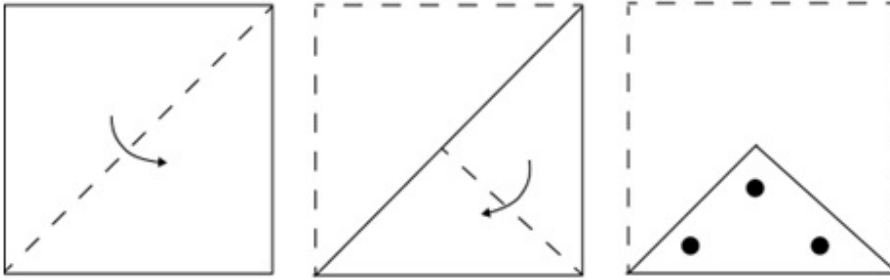
✗ 1. 7 — 15 — 22

✗ 2. 15 — 30 — 20

✓ 3. 5 — 12 — 21

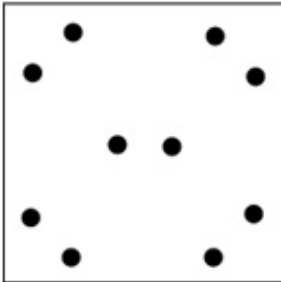
✗ 4. 9 — 12 — 22

Q.20 A square sheet of paper is folded along the dotted line successively along the directions shown and is then punched in the last as shown. How would the paper look when unfolded?

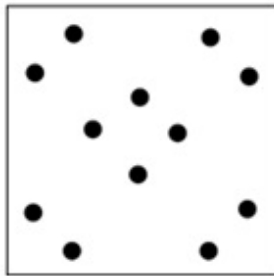


Ans

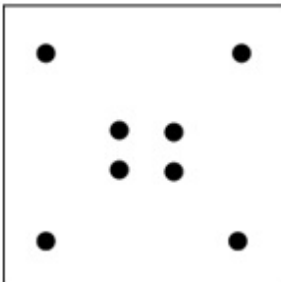
✗ 1.



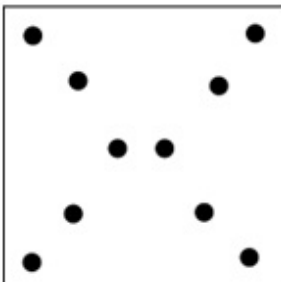
✓ 2.



✗ 3.



✗ 4.



Q.21 Select the option that represents the letters that, when placed from left to right in the blanks below, will complete the letter series.

D _ F D _ F _ F _ D _ F

Ans

✗ 1. D F F D D

✗ 2. F D D F F

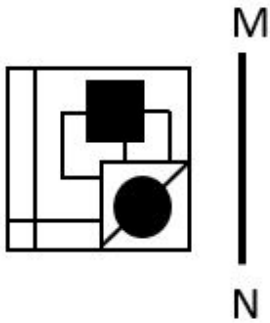
✗ 3. D F D D F

✓ 4. F F D F F

Q.22 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
 (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
 (27, 405, 3)
 (23, 690, 6)

- Ans**
- ☒ 1. (14, 364, 7)
 - ☒ 2. (22, 616, 7)
 - ☒ 3. (16, 448, 7)
 - ☒ 4. (24, 600, 5)

Q.23 Select the correct mirror image of the given figure when the mirror is placed at MN as shown.



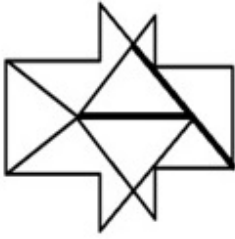
Ans

- ☒ 1.
- ☒ 2.
- ☒ 3.
- ☒ 4.

Q.24 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
 Frivolous : Big :: Deride : ?

- Ans**
- ☒ 1. Jeer
 - ☒ 2. Detest
 - ☒ 3. Taunt
 - ☒ 4. Encourage

Q.25 How many triangles are there in the given figure?



- Ans
- ☒ 1. 7
 - ☐ 2. 6
 - ☐ 3. 9
 - ☐ 4. 8

Section : General Awareness

Q.1 Who among the following is the hero of the Sanskrit historical poem, the 'Ramacharita' written by Sandhyakar Nandi?

- Ans
- ☐ 1. Gopala
 - ☐ 2. Devapala
 - ☒ 3. Ramapala
 - ☐ 4. Dharmapala

Q.2 According to the Census of India 2011, which group of Union Territories recorded the highest sex ratio?

- Ans
- ☐ 1. Puducherry, Delhi, Andaman and Nicobar Islands
 - ☒ 2. Puducherry, Lakshadweep, Andaman and Nicobar Islands
 - ☐ 3. Chandigarh, Puducherry, Lakshadweep
 - ☐ 4. Chandigarh, Puducherry, Delhi

Q.3 Which of the following two quantities have the same dimensions?

- Ans
- ☒ 1. Work and torque
 - ☐ 2. Power and moment of inertia
 - ☐ 3. Work and angular displacement
 - ☐ 4. Power and radius of circular motion

Q.4 The Doctrine of Lapse was an annexation policy devised by which of the following Governor-Generals of India?

- Ans
- ☐ 1. Lord Wellesley
 - ☒ 2. Lord Dalhousie
 - ☐ 3. Lord Mayo
 - ☐ 4. Lord Canning

Q.5 Which of the following is a man-made ecosystem?

- Ans
- ☒ 1. Aquarium
 - ☐ 2. Dessert
 - ☐ 3. Forest
 - ☐ 4. Grassland

Q.6 Who among the following famous Indian women cricketers announced retirement in June 2022?

- Ans
- ☐ 1. Smriti Mandhana
 - ☐ 2. Jhulan Goswami
 - ☐ 3. Anjum Chopra
 - ☒ 4. Mithali Raj

Q.7 Which state government honoured Vani Jairam with the MS Subbulakshmi Award for 2019?

- Ans**
- ☒ 1. Maharashtra
 - ☒ 2. Karnataka
 - ☒ 3. Odissa
 - ☒ 4. Tamil Nadu

Q.8 Which region in India receives less rainfall in summer, but heavy rainfall in winter season due to the retreating north easterly winds?

- Ans**
- ☒ 1. Southern coastal region
 - ☒ 2. Western coastal region
 - ☒ 3. Northern coastal region
 - ☒ 4. Eastern coastal region

Q.9 Match the sports in List I with the sportsperson in List II who were in news for their sports achievement in 2022:

LIST I- Sports		LIST II-Sports man	
A	Lakshya Sen	i	Boxing
B	Rameshbabu Pragganandhaa	ii	Badminton
C	Nikhat Zareen	iii	Shooting
D	Rudrankksh Patil	iv	Chess

- Ans**
- ☒ 1. A-iv, B-ii, C-i, D-iii
 - ☒ 2. A-iii, B-iv, C-i, D-ii
 - ☒ 3. A-i, B-iv, C-ii, D-iii
 - ☒ 4. A-ii, B-iv, C-i, D-iii

Q.10 Which of the following are the two basic categories of an ecosystem?

- Ans**
- ☒ 1. Forest and Aquatic
 - ☒ 2. Terrestrial and Aquatic
 - ☒ 3. Lakes and Ponds
 - ☒ 4. Forest and Rivers

Q.11 For which of the following states was the Constitution (Scheduled Castes and Scheduled Tribes) Orders (Second Amendment) Bill, 2022, introduced in the Parliament?

- Ans**
- ☒ 1. Odisha
 - ☒ 2. Bihar
 - ☒ 3. Uttar Pradesh
 - ☒ 4. Madhya Pradesh

Q.12 Which of the following features of the Indian Constitution was borrowed from Irish Constitution?

- Ans**
- ☒ 1. Directive Principles of State Policy
 - ☒ 2. Concurrent List
 - ☒ 3. Fundamental Rights
 - ☒ 4. Rule of Law

Q.13 The Supreme Court of India comprises the Chief Justice and not more than _____ other Judges appointed by the President of India.

- Ans**
- ☒ 1. 37
 - ☒ 2. 35
 - ☒ 3. 38
 - ☒ 4. 33

Q.14 Ranjana Gauhar was awarded the Padma Shri Award (2003) for her contribution to which of the following Indian dance forms?

- Ans**
- ☒ 1. Kuchipudi
 - ☐ 2. Sattriya
 - ☒ 3. Odissi
 - ☐ 4. Manipuri

Q.15 Who won the paralympic bronze medal in archery for India at Tokyo in 2020?

- Ans**
- ☐ 1. Atanu Das
 - ☐ 2. Pravin Jadhav
 - ☐ 3. Deepika Kumari
 - ☒ 4. Harvinder Singh

Q.16 Which of the following statements is correct about the composition of the agriculture sector and employment in GDP post-independence?

- Ans**
- ☐ 1. The proportion of employment has declined significantly but not the share of the agriculture sector in GDP.
 - ☐ 2. The proportion of both the agriculture sector and employment in GDP has increased significantly.
 - ☐ 3. The proportion of both the agriculture sector and employment in GDP has declined significantly.
 - ☒ 4. The proportion of GDP contributed by the agricultural sector declined significantly but not the employment depending on the agriculture sector.

Q.17 Which port is developed as a satellite port?

- Ans**
- ☐ 1. Mormugao
 - ☒ 2. Jawaharlal Nehru
 - ☐ 3. Haldia
 - ☐ 4. New Mangalore

Q.18 Which polyatomic ionic compound is a white, crystalline powder used in fire extinguishers and to neutralise acids and bases?

- Ans**
- ☐ 1. Sodium Bisulphite
 - ☐ 2. Sodium Thiosulphate
 - ☐ 3. Sodium Chromate
 - ☒ 4. Sodium Bicarbonate

Q.19 Chhath Puja is the main festival of which state?

- Ans**
- ☒ 1. Bihar
 - ☐ 2. Tamil Nadu
 - ☐ 3. Karnataka
 - ☐ 4. Assam

Q.20 Vindhyashakti was the founder of which of the following dynasties?

- Ans**
- ☐ 1. Pallava
 - ☐ 2. Maukhari
 - ☒ 3. Vakataka
 - ☐ 4. Chalukya

Q.21 Which Indian singer wrote 'Raag Sarita'?

- Ans**
- ☐ 1. Kesarbai Kerkar
 - ☐ 2. Balasaheb Poonchwale
 - ☐ 3. Kumar Gandharva
 - ☒ 4. Chintaman Raghunath Vyas

Q.22 In which of the following areas did the Uprising of Khurda in 1817 take place?

Ans ☒ 1. United Province

☒ 2. Odisha

☐ 3. Madras

☐ 4. Bengal

Q.23 The central bank of India or Reserve Bank of India was created before Independence, in the year 1934. The recommendation to create a central bank was made by a commission called:

Ans ☐ 1. Dr. Raja Chelliah Committee

☐ 2. Kothari Commission

☐ 3. Narasimham Committee

☒ 4. Hilton Young Commission

Q.24 Sundari trees are found in which type of forests in India?

Ans ☒ 1. Mangrove forests

☐ 2. Tropical deciduous forests

☐ 3. The thorn forests and scrubs

☐ 4. Tropical evergreen forests

Q.25 Which team won the T20 cricket event, Syed Mushtaq Ali Trophy 2022-2023?

Ans ☒ 1. Mumbai

☐ 2. Punjab

☐ 3. Vidarbha

☐ 4. Himanchal Pradesh

Section : Quantitative Aptitude

Q.1 If $p(\sqrt{3} + \cot 30^\circ) = \tan^3 60^\circ - 2\sin 60^\circ$, then the value of p is:

Ans ☐ 1. -1

☐ 2. $2\sqrt{3}$

☒ 3. 1

☐ 4. $\sqrt{3}$

Q.2 The given table shows the marks obtained by a student in class 9.

Subjects	Marks (out of 100)
Social Science	93
Science	90
Hindi	90
English	95
Mathematics	78

What is the percentage of marks obtained by the student?

Ans ☒ 1. 89.2%

☐ 2. 88.8%

☐ 3. 90%

☐ 4. 88%

Q.3 One-quarter of a circumference 21 cm was removed from the whole pizza. What is the perimeter (in cm) of the remaining pizza? (Use

- Ans
- 1. 99
 - ✓ 2. 141
 - ✗ 3. 128
 - ✗ 4. 131

Q.4 A shopkeeper mixes two types of rice costing ₹250/5 kg and ₹280/5 kg in the ratio 7 : 8. Find the net cost of the resultant mixture (per kg).

- Ans
- ✗ 1. ₹32.50
 - ✓ 2. ₹53.20
 - ✗ 3. ₹52.30
 - ✗ 4. ₹25.30

Q.5 The following table shows the sale (in lakh rupees) of six commodities in a provision store from August 2012 to October 2012.

Month/Commodity	Dry Fruits	Tea	Pulses	Sugar	Flour	Rice
August	27	24	45	48	55	42
September	32	15	34	42	33	23
October	25	30	42	47	49	27

The total combined sale of dry fruits, sugar and rice for the period from August 2012 to October 2012 is what percentage (rounded off to the nearest whole number) of the total combined sale of tea, pulses and flour?

- Ans
- ✗ 1. 94%
 - ✗ 2. 98%
 - ✗ 3. 95%
 - ✓ 4. 96%

Q.6 If $\frac{1}{1-\sin \theta} + \frac{1}{1+\sin \theta} = 4 \sec \theta$, ($0 < \theta < 90^\circ$), then the value of $(\cot \theta + \operatorname{cosec} \theta)$ is:

- Ans
- ✓ 1. $\sqrt{3}$
 - ✗ 2. $\sqrt{6}$
 - ✗ 3. $\sqrt{2}$
 - ✗ 4. $\sqrt{5}$

Q.7 In an election between R and S, R gets 110% of the votes of S and beats S by 770 votes. If there were no invalid votes, then the total number of votes polled is:

- Ans**
- ☐ 1. 17610
 - ☒ 2. 17160
 - ☐ 3. 16170
 - ☐ 4. 16710

Q.8 If 321y72 is a multiple of 6, where y is a digit, what is the least value of y?

- Ans**
- ☒ 1. 3
 - ☐ 2. 0
 - ☐ 3. 7
 - ☐ 4. 2

Q.9 An article is sold at a profit of 250%. What is the ratio of its cost price to selling price?

- Ans**
- ☒ 1. 2 : 5
 - ☐ 2. 5 : 2
 - ☐ 3. 2 : 7
 - ☐ 4. 7 : 2

Q.10 The solution of the following equations is:

$$\begin{aligned}5x + 4y - 8z &= 1 \\7x - 9y + z &= -1 \\2x + 3y - 4z &= 1\end{aligned}$$

- Ans**
- ☒ 1. $x = -1, y = 1, z = 1$
 - ☐ 2. $x = 1, y = 1, z = 1$
 - ☐ 3. $x = 1, y = -1, z = 1$
 - ☐ 4. $x = 1, y = 1, z = -1$

Q.11 Pranav borrows a sum of ₹6,23,305 at the rate of 10% per annum simple interest. At the end of the first year, he repays ₹16,390 towards return of principal amount borrowed. If Pranav clears all pending dues at the end of the second year, including interest payment that accrued during the first year, how much does he pay (in ₹) at the end of the second year?

- Ans**
- ☒ 1. 7,25,903
 - ☐ 2. 7,29,025
 - ☐ 3. 7,38,700
 - ☐ 4. 7,29,937

Q.12 What is the height (in m) of a conical water tank having radius of 70 m and volume of 46,200 m³? (Take $\pi = \frac{22}{7}$)

- Ans**
- ☒ 1. 27
 - ☐ 2. 9
 - ☐ 3. 18
 - ☐ 4. 54

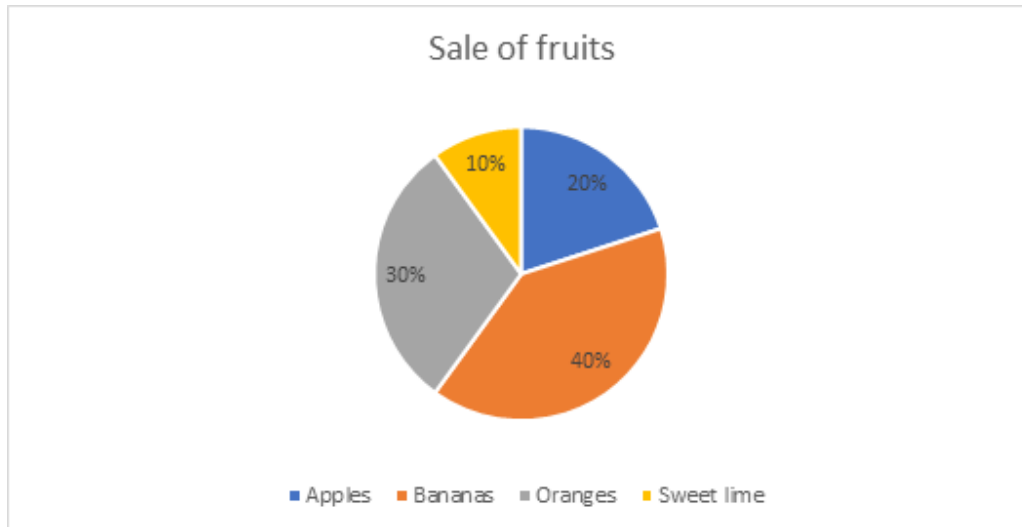
Q.13 If A:B = 6 : 8 and B:C = 5 : 10, then A:B:C is:

- Ans**
- ☐ 1. 3:4:8
 - ☒ 2. 1:3:4
 - ☐ 3. 4:3:2
 - ☐ 4. 1:2:4

Q.14 Simplify the following expression.
[[{70 - 60 ÷ 2 of 6} + (20 - 10) ÷ 10] + 600 ÷ 25 of (2 × 3) × (2 of 3) + 2 of 5.

- Ans**
- ☐ 1. 90
 - ☒ 2. 100
 - ☐ 3. 99
 - ☐ 4. 110

Q.15 The pie chart below shows the per cent sale of different fruits in a day for a shop.
If the total number of fruits sold by a fruit seller in a day is 1200, what is the combined central angle in the pie chart for oranges and apples?



- Ans**
- ☐ 1. 220°
 - ☐ 2. 90°
 - ☒ 3. 180°
 - ☐ 4. 160°

Q.16 A boat can travel 78 km upstream and back in a total of 32 hours. It can travel 15 km upstream and 52 km downstream in a total of 9 hours. How much distance will the boat cover in 12 hours in still water?

- Ans**
- ☐ 1. 92 km
 - ☒ 2. 96 km
 - ☐ 3. 104 km
 - ☐ 4. 100 km

Q.17 A and B are centres of two circles with radii 2 cm and 1 cm respectively, where AB = 5 cm. C is the centre of another circle of radius r cm, which touches each of the above two circles externally. If $\angle ACB = 90^\circ$, then the value of r is:

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

Q.18 Simplify the following expression.

$$\frac{(x - y)^3 + (y - z)^3 + (z - x)^3}{(x - y)(y - z)(z - x)}$$

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

Q.19 From a circle of radius 7 units, an arc length is cut by a chord of length 7 units. What is the arc length of the smaller portion (in units)?

Ans

1.

✗ 2. $\frac{7}{6}\pi$

✓ 3. $\frac{7}{3}\pi$

✗ 4. $\frac{7}{4}\pi$

Q.20 If the successive discount by 10%,15%, then the single equivalent rate of discount is:

Ans

✗ 1. 32.3%

✗ 2. 24.2%

✗ 3. 43.4%

✓ 4. 23.5%

Q.21 There are two pipes used to fill a tank and when operated together, they can fill the tank in 20 minutes. If one pipe can fill the tank two and a half times as quickly as the other, then the faster pipe alone can fill the tank in:

Ans

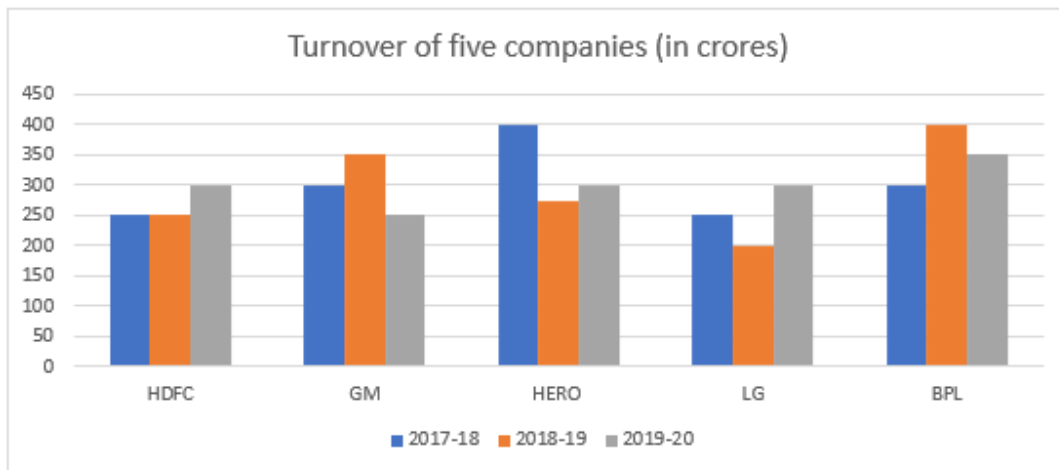
✗ 1. 30 min

✗ 2. 32 min

✗ 3. 34 min

✓ 4. 28 min

Q.22 The given bar graph shows the turnover of five companies (in crores).



What is the difference between the average sales turnover of all the companies put together between the years 2018-2019 and 2019-2020?

Ans

✓ 1. ₹5 crore

✗ 2. ₹2 crore

✗ 3. ₹6.5 crore

✗ 4. ₹3.5 crore

Q.23

- Ans
- ☐ 1. $QR = 6 \text{ cm}, \angle Q = 60^\circ$
 - ☐ 2. $QR = 6 \text{ cm}, \angle R = 60^\circ$
 - ☐ 3. $QP = 6 \text{ cm}, \angle P = 60^\circ$
 - ☒ 4. $QP = 6 \text{ cm}, \angle R = 60^\circ$

Q.24 If $\sin 31^\circ = \alpha$, then the value of $\cot 59^\circ$ is:

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

Q.25 At a cafe, Rama bought drinks for her 7 friends at ₹240. Some of them wanted coffee, while others wanted black tea. A regular cup of coffee cost ₹40 and a regular cup of black tea cost ₹ 30. How many cups of tea did she purchase?

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

Section : English Comprehension

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

Satya is always great to his friends who helped him when he was in trouble.

- Ans
- ☐ 1. grateful
 - ☐ 2. thanked
 - ☐ 3. no substitution
 - ☒ 4. grateful

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

- Ans
- ☐ 1. Exhort
 - ☒ 2. Expansion
 - ☐ 3. Lucid
 - ☐ 4. Precise

Q.3 The following sentence has been divided into four segments. Identify the segment that contains an error.
Mr. Surya / have no interior / motive in offering / you support.

- Ans
- ☐ 1. Mr. Surya
 - ☐ 2. you support.
 - ☐ 3. motive in offering
 - ☒ 4. have no interior

Q.4 Select the most appropriate option that can substitute the underlined segment in the given sentence.

The team always anticipate a bowling friendly pitch on their easy victory in the T20 matches.

- Ans**
- ☐ 1. pitch over their easy victory
 - ☒ 2. pitch for their easy victory
 - ☐ 3. pitch to their easy victory
 - ☐ 4. pitch of their easy victory

Q.5 Select the option that expresses the given sentence in passive voice.
The team will announce the winner tomorrow.

- Ans**
- ☐ 1. The team will announce tomorrow the winner.
 - ☐ 2. The winner will announce tomorrow by the team.
 - ☒ 3. The winner will be announced by the team tomorrow.
 - ☐ 4. Tomorrow will be announced the winner by the team.

Q.6 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
By the end of / this month, he / will been working / for five years.

- Ans**
- ☐ 1. for five years
 - ☒ 2. will been working
 - ☐ 3. By the end of
 - ☐ 4. this month, he

Q.7 Select the most appropriate option to fill in the blank.
Kamal is not willing to purchase a house on the 12th floor of a sea-side apartment, as she is fearful of heights. She is suffering from _____.

- Ans**
- ☐ 1. heliophobia
 - ☐ 2. claustrophobia
 - ☐ 3. sociophobia
 - ☒ 4. acrophobia

Q.8 Select the most appropriate option to fill in the blank.

The homophone for the word 'there' is _____.

- Ans**
- ☐ 1. that
 - ☒ 2. their
 - ☐ 3. those
 - ☐ 4. clear

Q.9 Select the most appropriate meaning of the given idiom.
Turned a deaf ear to

- Ans**
- ☒ 1. Disregarded
 - ☐ 2. At intervals
 - ☐ 3. By any means
 - ☐ 4. Rebuked

Q.10 Select the most appropriate meaning of the given idiom.

A bad patch

- Ans**
- ☐ 1. A path that is untravelled
 - ☒ 2. A period of time when a person faces lots of troubles
 - ☐ 3. A person who takes a difficult path
 - ☐ 4. A dangerous road to walk on

Q.11 Select the most appropriate **ANTONYM** of the underlined word in the given sentence.
An elephant is a large mammal.

- Ans**
- ☐ 1. Bumper
 - ☒ 2. Gigantic
 - ☐ 3. Tiny
 - ☐ 4. Heroic

Q.12 Select the option that can be used as a one-word substitute for the given group of words.
Cannot be corrected

- Ans**
- ☒ 1. Illegible
 - ☐ 2. Incurable
 - ☐ 3. Incredible
 - ☐ 4. Ineligible

Q.13 Select the most appropriate **ANTONYM** of the word in bold to fill in the blank.
The modern work is deliberately **ambiguous** (ambiguous).

- Ans**
- ☒ 1. puzzling
 - ☐ 2. certain
 - ☐ 3. dubious
 - ☐ 4. vague

Q.14 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.
A. Smoking in
B. Your youth stunts
C. The body and
D. Clouds the brain

- Ans**
- ☐ 1. ABCD
 - ☒ 2. CABD
 - ☐ 3. DCBA
 - ☐ 4. DBCA

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

- Ans**
- ☒ 1. Callous
 - ☐ 2. Compromise
 - ☐ 3. Compassion
 - ☐ 4. Rivalry

Q.16 Select the word which means the same as the group of words given.

A written statement made under oath

- Ans**
- ☒ 1. Testimony
 - ☐ 2. Affirmation
 - ☐ 3. Affidavit
 - ☐ 4. Statement

Q.17 Select the most appropriate **ANTONYM** of the word in bold.
His mother never held a **grudge** against his father.

- Ans**
- ☒ 1. rancour
 - ☐ 2. benevolence
 - ☐ 3. revulsion
 - ☐ 4. malevolence

- Q.18** In the following sentence, four words have been underlined, out of which one word is MISSPELT. Select the option with the MISSPELT word.
In spite of the dilemma that preveiled during the discussion sessions, the committee remained committed to finding an amicable solution to the issue.
- Ans** ☒ 1. amicable
☒ 2. committee
☒ 3. preveiled
☒ 4. dilemma

- Q.19** Select the option that expresses the given sentence in passive voice.
Don't let Dylan fool you!

- Ans** ☒ 1. Do not be fooled by Dylan.
☒ 2. Do not ever be fooled by Dylan.
☒ 3. Do not be fool by Dylan.
☒ 4. Do not have been fooled by Dylan.

- Q.20** Select the INCORRECTLY spelt word.

- Ans** ☒ 1. Reinforcement
☒ 2. Opportunity
☒ 3. Atributes
☒ 4. Motivational

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Sleeping, dreaming and waking are three important (1)_____ for ordinary humans. But for those who have (2)_____ transcendental knowledge, all three are almost same and there is not much difference among these three. 'The world and life is a myth and it keeps on changing' (3)_____ Adi Shankaracharya, the greatest 'Advaita' preacher. Ramana Maharshi observed no difference between dreaming and waking states. What he said is that it is from one unreal world to another (4)_____ world. There is no difference between the images one sees when waking up and the images he/she sees during dreams. According to this great sage of the modern century, the first one is daydream and the second one is a night dream. The usual philosophers say that mind and body are the two elements and mind is the source of all diverse thoughts. In the waking up state, the mind is active with all tensions and dissatisfactions, so happiness is missing: during sleep as the mind is absent and so is the physical world, the real happiness (5)_____. It is said that deep sleep, where there is no feeling of body, mind and the world, is the natural state of human beings.

SubQuestion No : 21

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

- Ans** ☒ 1. problems
☒ 2. aspects
☒ 3. methods
☒ 4. angles

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Sleeping, dreaming and waking are three important (1)_____ for ordinary humans. But for those who have (2)_____ transcendental knowledge, all three are almost same and there is not much difference among these three. 'The world and life is a myth and it keeps on changing' (3)_____ Adi Shankaracharya, the greatest 'Advaita' preacher. Ramana Maharshi observed no difference between dreaming and waking states. What he said is that it is from one unreal world to another (4)_____ world. There is no difference between the images one sees when waking up and the images he/she sees during dreams. According to this great sage of the modern century, the first one is daydream and the second one is a night dream. The usual philosophers say that mind and body are the two elements and mind is the source of all diverse thoughts. In the waking up state, the mind is active with all tensions and dissatisfactions, so happiness is missing: during sleep as the mind is absent and so is the physical world, the real happiness (5)_____. It is said that deep sleep, where there is no feeling of body, mind and the world, is the natural state of human beings.

SubQuestion No : 22

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

- Ans** ☒ 1. large
☒ 2. deep
☒ 3. superficial
4. depth

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Sleeping, dreaming and waking are three important (1)_____ for ordinary humans. But for those who have (2)_____ transcendental knowledge, all three are almost same and there is not much difference among these three. 'The world and life is a myth and it keeps on changing' (3)_____ Adi Shankaracharya, the greatest 'Advaita' preacher. Ramana Maharshi observed no difference between dreaming and waking states. What he said is that it is from one unreal world to another (4)_____ world. There is no difference between the images one sees when waking up and the images he/she sees during dreams. According to this great sage of the modern century, the first one is daydream and the second one is a night dream. The usual philosophers say that mind and body are the two elements and mind is the source of all diverse thoughts. In the waking up state, the mind is active with all tensions and dissatisfactions, so happiness is missing: during sleep as the mind is absent and so is the physical world, the real happiness (5)_____. It is said that deep sleep, where there is no feeling of body, mind and the world, is the natural state of human beings.

SubQuestion No : 23

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

- Ans**
- ☒ 1. tells by
 - ☒ 2. was said
 - ☒ 3. saying
 - ☒ 4. says

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Sleeping, dreaming and waking are three important (1)_____ for ordinary humans. But for those who have (2)_____ transcendental knowledge, all three are almost same and there is not much difference among these three. 'The world and life is a myth and it keeps on changing' (3)_____ Adi Shankaracharya, the greatest 'Advaita' preacher. Ramana Maharshi observed no difference between dreaming and waking states. What he said is that it is from one unreal world to another (4)_____ world. There is no difference between the images one sees when waking up and the images he/she sees during dreams. According to this great sage of the modern century, the first one is daydream and the second one is a night dream. The usual philosophers say that mind and body are the two elements and mind is the source of all diverse thoughts. In the waking up state, the mind is active with all tensions and dissatisfactions, so happiness is missing: during sleep as the mind is absent and so is the physical world, the real happiness (5)_____. It is said that deep sleep, where there is no feeling of body, mind and the world, is the natural state of human beings.

SubQuestion No : 24

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

- Ans**
- ☒ 1. confused
 - ☒ 2. reality
 - ☒ 3. unreal
 - ☒ 4. unimaginary

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Sleeping, dreaming and waking are three important (1)_____ for ordinary humans. But for those who have (2)_____ transcendental knowledge, all three are almost same and there is not much difference among these three. 'The world and life is a myth and it keeps on changing' (3)_____ Adi Shankaracharya, the greatest 'Advaita' preacher. Ramana Maharshi observed no difference between dreaming and waking states. What he said is that it is from one unreal world to another (4)_____ world. There is no difference between the images one sees when waking up and the images he/she sees during dreams. According to this great sage of the modern century, the first one is daydream and the second one is a night dream. The usual philosophers say that mind and body are the two elements and mind is the source of all diverse thoughts. In the waking up state, the mind is active with all tensions and dissatisfactions, so happiness is missing: during sleep as the mind is absent and so is the physical world, the real happiness (5)_____. It is said that deep sleep, where there is no feeling of body, mind and the world, is the natural state of human beings.

SubQuestion No : 25

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

- Ans**
- ☒ 1. is gained
 - ☒ 2. gains
 - ☒ 3. gained
 - ☒ 4. was gained