

SSC CGL Tier-I

Previous Year Paper
17 Sept, 2024 Shift 3



Combined Graduate Level Examination 2024 Tier I

Exam Date	17/09/2024
Exam Time	4:00 PM - 5:00 PM
Subject	Combined Graduate Level Examination Tier I

Section : General Intelligence and Reasoning

Q.1 Select the option that represents the letters that when sequentially placed from left to right in the blanks below will complete the letter series.

_ P _ J _ P _ P _ _ P _

Ans  1. JPPJPJP

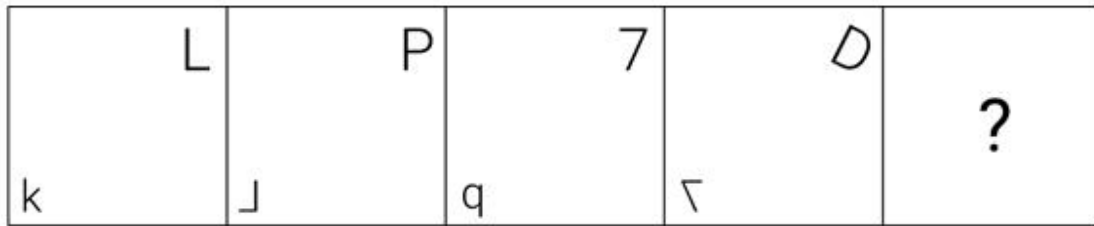
 2. PPJJJJJ

 3. JPJPJPJ

 4. JJPPPPJ

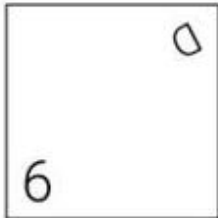


Q.2 Identify the figure from among the given options which when put in place of the question mark (?) will logically complete the series.

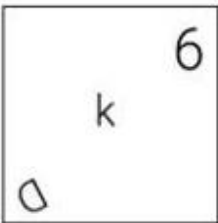


Ans

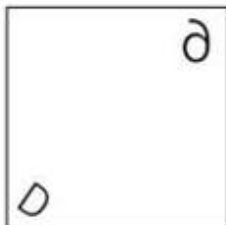
✗ 1.



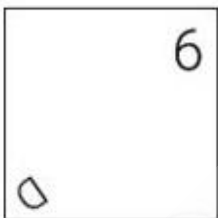
✗ 2.



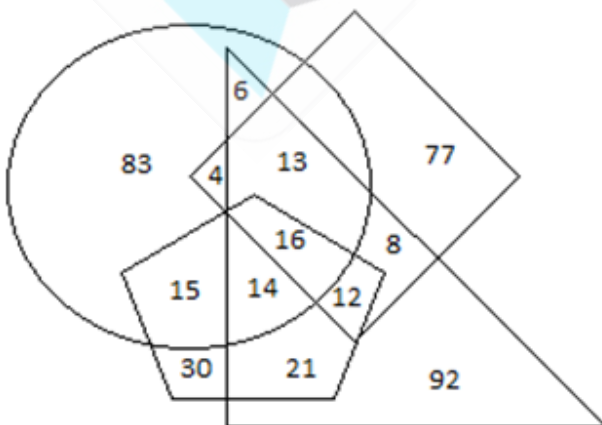
✗ 3.



✓ 4.



Q.3 The diagram given below has four different shapes, depicting different farmers of a small village, with different assets. The circle represents the farmers who own land of more than 100 yards, the pentagon represents farmers who own cows, the rhombus represents farmers who own goats, and the triangle represents farmers who own tractors.



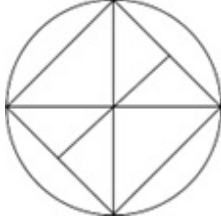
How many farmers are there who have all four assets?

- Ans
- ✗ 1. 14
 - ✗ 2. 30
 - ✓ 3. 16
 - ✗ 4. 21

Q.4 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different. The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.

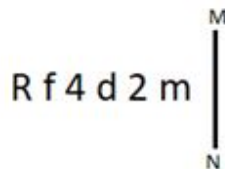
- Ans**
- ☒ 1. NPRS
 - ☒ 2. KMOP
 - ☒ 3. UVXW
 - ☒ 4. EGIJ

Q.5 How many triangles are there in the given figure?



- Ans**
- ☒ 1. 14
 - ☒ 2. 12
 - ☒ 3. 16
 - ☒ 4. 10

Q.6 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans**
- ☒ 1. m 2 b 4 1 R
 - ☒ 2. m 5 b 4 1 R
 - ☒ 3. m 2 P f 4 R
 - ☒ 4. w 5 p 7 1 R

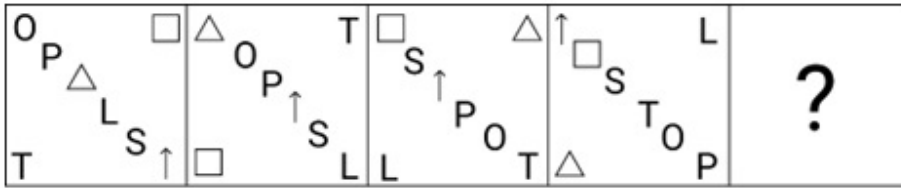
Q.7 In a certain code language,
 'A + B' means 'A is the mother of B';
 'A - B' means 'A is the brother of B';
 'A x B' means 'A is the sister of B' and
 'A ÷ B' means 'A is the daughter of B'.
 Based on the above, if 'J + K ÷ L - T x R', then how is J related to L?

- Ans**
- ☒ 1. Wife
 - ☒ 2. Sister
 - ☒ 3. Husband's sister
 - ☒ 4. Father's sister

Q.8 What will come in place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $6 \div 8 - 91 \times 13 + 30 = ?$

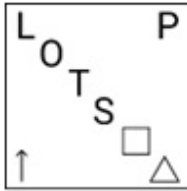
- Ans**
- ☒ 1. 20
 - ☒ 2. 25
 - ☒ 3. 23
 - ☒ 4. 22

Q.9 Select the figure from among the given option that can replace the question mark (?) in the following series.

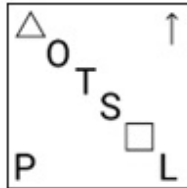


Ans

✗ 1.



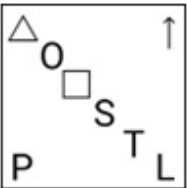
✓ 2.



✗ 3.



✗ 4.



Q.10 Which of the following terms will replace the question mark (?) in the given series?
JKT, LJR, NIP, ?

Ans

✗ 1. PHM

✗ 2. PGO

✗ 3. OGP

✓ 4. PHN

Q.11 'Meek' is related to 'Bold' in the same way as 'Spend' 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. Donate

✗ 2. Expend

✗ 3. Pay

✓ 4. Hoard

Q.12 What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $99 \div 41 + 208 \times 2 - 35 = ?$

Ans

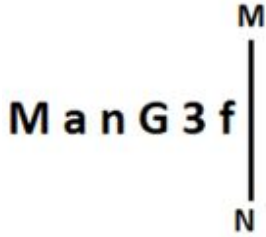
✓ 1. 3990

✗ 2. 3890

✗ 3. 3980

✗ 4. 3390

Q.13 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans
- ☒ 1. $\text{f } \text{E G n s M}$
 - ☒ 2. $\text{f } \text{E } \text{O n s W}$
 - ☒ 3. $\text{f } \text{E G u e M}$
 - ☒ 4. $\text{f } \text{E } \text{O n s M}$

Q.14 Select the triad in which the numbers are related in the same way as are the numbers of the given triads. (54, 65, 76), (48, 59, 70)
(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. (27, 38, 50)
 - ☒ 2. (38, 49, 60)
 - ☒ 3. (31, 41, 53)
 - ☒ 4. (42, 57, 68)

Q.15 In a certain code language, 'OASIS' is written as 'RJTBN' and 'OBESE' is written as 'DTFCN'. How will 'OCCUR' be written in that language?

- Ans
- ☒ 1. VQDDN
 - ☒ 2. VQNDD
 - ☒ 3. QVNDD
 - ☒ 4. QVDDN

Q.16 Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

Some circles are rectangles.
Some rectangles are squares.
All squares are triangles.

Conclusions:

I. No circle is a triangle.
II. Some rectangles are triangles.
III. All rectangles are triangles.

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

Q.17 Each of the letters in the word 'MUSICAL' is arranged in the English alphabetical order. How many letters are there in the English alphabetical series between the letter which is third from the left end and the one which is third from the right end in the new letter-cluster thus formed?

- Ans
- ☒ 1. Three
 - ☒ 2. Two
 - ☒ 3. Five
 - ☒ 4. Four

Q.18 Select the term from among the given options that can replace the question mark (?) in the following series.
YL 93, XK 88, WJ 83, VI 78, ?

- Ans**
- ☒ 1. VG 74
 - ☒ 2. UH 72
 - ☒ 3. VI 74
 - ☒ 4. UH 73

Q.19 Three of the following four options are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?
(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. $86 - 41 = 38$
 - ☒ 2. $118 - 93 = 161$
 - ☒ 3. $33 - 15 = 12$
 - ☒ 4. $52 - 36 = 56$

Q.20 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.)
(23, 230, 5)
(17, 272, 8)

- Ans**
- ☒ 1. (14, 210, 5)
 - ☒ 2. (16, 336, 7)
 - ☒ 3. (18, 648, 9)
 - ☒ 4. (19, 304, 8)

Q.21 Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.
(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.)

17 : 67
21 : 79

- Ans**
- ☒ 1. 33 : 110
 - ☒ 2. 34 : 118
 - ☒ 3. 42 : 100
 - ☒ 4. 23 : 69

Q.22 Select the number from among the given options that can replace the question mark (?) in the following series.
1225, 1184, 1147, 1116, 1087, ?

- Ans**
- ☒ 1. 1054
 - ☒ 2. 1078
 - ☒ 3. 1072
 - ☒ 4. 1064

Q.23 In a certain code language, 'RUG' is coded as 'EPS' and 'SIT' is coded as 'RQG'. How will 'COP' be coded in the same language?

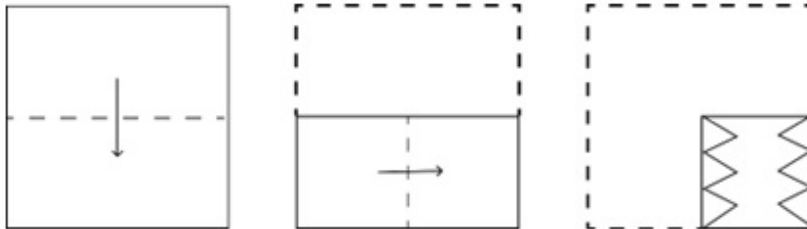
- Ans**
- ☒ 1. MBO
 - ☒ 2. NBM
 - ☒ 3. NAM
 - ☒ 4. MBM

Q.24 Six words Hand, Leg, Eyes, Nose, Mouth and Ear are written on different faces of a dice. Three positions of this dice are shown in the figure. Find the word on the face opposite to Hand.



- Ans**
- ☒ 1. Leg
 - ☒ 2. Nose
 - ☒ 3. Mouth
 - ☒ 4. Ear

Q.25 A paper is folded and cut as shown below. How will it appear when unfolded?



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

Section : General Awareness

Q.1 According to the Census of India 2011, 'Other Religions and Persuasions (ORP)' comprise how much of the population?

- Ans**
- ☒ 1. 3.9 million
 - ☒ 2. 7.9 million
 - ☒ 3. 5.9 million
 - ☒ 4. 9.9 million

Q.2 When was the Rajiv Gandhi Khel Ratna Award renamed as Major Dhyan Chand Khel Ratna Award?

- Ans**
- ☒ 1. 6th August 2022
 - ☒ 2. 5th January 2022
 - ☒ 3. 6th August 2021
 - ☒ 4. 5th January 2021

Q.3 Who among the following was appointed as the Governor of Jharkhand in February 2023?

- Ans**
- ☒ 1. CP Radhakrishnan
 - ☒ 2. Ramesh Bais
 - ☒ 3. T Gahlot
 - ☒ 4. RN Ravi

Q.4 Where was the first women's international test cricket match hosted in India in 1976?

- Ans**
- ☒ 1. New Delhi
 - ☒ 2. Bangalore
 - ☒ 3. Mumbai
 - ☒ 4. Kolkata

Q.5 Who among the following founded the Atmiya Sabha in 1814?

- Ans**
- ☒ 1. Keshab Chandra Sen
 - ☒ 2. Raja Rammohun Roy
 - ☒ 3. Ishwar Chandra Vidyasagar
 - ☒ 4. Debendranath Tagore

Q.6 Kajari Mahotsav is primarily celebrated in which of the following districts of Uttar Pradesh?

- Ans**
- ☒ 1. Mirzapur
 - ☒ 2. Gorakhpur
 - ☒ 3. Kushi Nagar
 - ☒ 4. Jhansi

Q.7 Matki dance is the famous folk dance associated with which of the following states?

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

Q.8 Which of the following is a species of tropical deciduous forests?

- Ans**
- ☒ 1. Palms
 - ☒ 2. Mahogany
 - ☒ 3. Teak
 - ☒ 4. Ebony

Q.9 Which Lavani singer got Padma Shri 2022 by the President of India?

- Ans**
- ☒ 1. Sulochana Chavan
 - ☒ 2. Bela Shende
 - ☒ 3. Vaishali Samant
 - ☒ 4. Devaki Pandit

Q.10 Which of the following is the most acidic?

- Ans**
- ☒ 1. HCOOH
 - ☐ 2. $\text{C}_2\text{H}_5\text{COOH}$
 - ☐ 3. $\text{C}_3\text{H}_7\text{COOH}$
 - ☐ 4. CH_3COOH

Q.11 The Maukharis ruled over which of the following cities in western Uttar Pradesh that over the time replaced Pataliputra as a political centre of north India?

- Ans**
- ☒ 1. Kannauj
 - ☐ 2. Bareilly
 - ☐ 3. Agra
 - ☐ 4. Kanpur

Q.12 Which of the following is NOT a greenhouse gas?

- Ans**
- ☐ 1. Methane
 - ☐ 2. Carbon dioxide
 - ☐ 3. Nitrous oxide
 - ☒ 4. Nitric oxide

Q.13 Which allotrope of carbon was discovered by Robert F Curl, Harold W Kroto and Richard E Smalley in 1985?

- Ans**
- ☐ 1. Graphene
 - ☐ 2. Lonsdaleite
 - ☐ 3. Carborane
 - ☒ 4. Fullerene

Q.14 Annapurna Devi is associated with which of the following musical instruments?

- Ans**
- ☐ 1. Rudra veena
 - ☐ 2. Taal
 - ☐ 3. Ektara
 - ☒ 4. Surbahar

Q.15 Which of the following articles of the Constitution of India lays down that 'The allocation of seats in the Council of States to be filled by representatives of the States and of the Union territories shall be in accordance with the provisions in that behalf contained in the fourth Schedule'?

- Ans**
- ☐ 1. Article 81
 - ☐ 2. Article 82
 - ☐ 3. Article 83
 - ☒ 4. Article 80

Q.16 In the year 1925, who extracted lipids from an erythrocyte sample and found that lipid monolayers are good for measuring molecular surface area versus lateral pressure?

- Ans**
- ☒ 1. Gorter and Grendel
 - ☐ 2. Carson and Eccles
 - ☐ 3. Avery and Buck
 - ☐ 4. Margulis and Ruska

Q.17 Identify the sequence of implementation of the following taxes.
I.Land revenue
II.Sales tax
III.MODVAT
IV.Service tax

- Ans**
- ☐ 1. III, II, IV, I
 - ☐ 2. II, IV, I, III
 - ☐ 3. IV, II, I, III
 - ☒ 4. I, II, III, IV

Q.18 Under which of the following Pala king's patronage the Vikramshila university in 8th century India was founded?

- Ans**
- ☐ 1. Gopala
 - ☐ 2. Mahipala I
 - ☐ 3. Devapala
 - ☒ 4. Dharmapala

Q.19 What is the amount of financial assistance provided per month to girl students studying in government schools under the 'Tamil Nadu Pudhumai Penn Scheme' launched by the Government of Tamil Nadu in 2023?

- Ans**
- ☐ 1. ₹500 per month
 - ☐ 2. ₹3,000 per month
 - ☒ 3. ₹1,000 per month
 - ☐ 4. ₹2,000 per month

Q.20 Under Pradhan Mantri Fasal Bima Yojana, the maximum premium payable by the farmers will be _____ for all kharif food and oilseeds crops.

- Ans**
- ☐ 1. 4%
 - ☒ 2. 2%
 - ☐ 3. 6%
 - ☐ 4. 8%

Q.21 What is the primary objective of the 'Standup India' initiative?

- Ans**
- ☐ 1. To boost the manufacturing sector
 - ☐ 2. To promote digital transactions nationwide
 - ☒ 3. To facilitate bank loans for SC/ST and women entrepreneurs
 - ☐ 4. To support all types of startups

Q.22 Which fundamental duty applies on you when you see a few school students, on their educational trip to Humayun's tomb, writing their names on the walls?

- Ans**
- ☒ 1. To safeguard public property
 - ☐ 2. To defend the country and render national service
 - ☐ 3. To uphold and protect the sovereignty, unity and integrity of India
 - ☐ 4. To protect and improve the natural environment

Q.23 In the second Round Table Conference, Mahatma Gandhi represented which of the following parties?

- Ans**
- ☐ 1. Communist Party of India
 - ☒ 2. Indian National Congress
 - ☐ 3. All India Forward Bloc
 - ☐ 4. Muslim League

Q.24 Through which routes is the majority of India's international trade carried out?

- Ans**
- ☒ 1. Railway and air
 - ☒ 2. Sea and air
 - ☒ 3. Only Railway
 - ☒ 4. Sea and railway

Q.25 Which of the following options indicates the size of PPLO (Pleuro Pneumonia Like Organisms)?

- Ans**
- ☒ 1. About 30 μm
 - ☒ 2. About 20 μm
 - ☒ 3. About 0.1 μm
 - ☒ 4. About 10 μm

Section : Quantitative Aptitude

Q.1 Find the length of the longest diagonal (in cm) of a cuboidal box of dimensions 1.2 cm \times 1.3 cm \times 1.5 cm (correct to two decimal places).

- Ans**
- ☒ 1. 2.22 cm
 - ☒ 2. 2.32 cm
 - ☒ 3. 2.23 cm
 - ☒ 4. 2.35 cm

Q.2 If x is an integer such that $x + \frac{1}{x} = \frac{65}{8}$, then find the value of $x - \frac{1}{x}$.

- Ans**
- ☒ 1. $\frac{63}{6}$
 - ☒ 2. $\frac{63}{8}$
 - ☒ 3. $\frac{36}{8}$
 - ☒ 4. $\frac{32}{6}$

Q.3 In a triangle, the lengths of sides are 6 units, 12 units and x units. How many possible integer values are there for x?

- Ans**
- ☒ 1. 9
 - ☒ 2. 12
 - ☒ 3. 11
 - ☒ 4. 10

Q.4 Arvind and Chetan started running simultaneously from the same point in the same direction on a circular track of length 210 m. If Arvind takes 180 seconds to complete one round, and Chetan takes 420 seconds to complete one round, after how much time will they meet for the first time at the starting point on the track?

- Ans**
- ☒ 1. 10 minutes
 - ☒ 2. 15 minutes
 - ☒ 3. 21 minutes
 - ☒ 4. 28 minutes

Q.5 The below table gives shares traded on Hyderabad, Mumbai, and Bengaluru stock exchanges (in ₹). Study the table and answer the question that follows.

	Hyderabad		Mumbai		Bengaluru	
Name of the company	High	Low	High	Low	High	Low
A	150	140	180	165	160	155
B	250	225	325	315	300	290
C	180	175	195	180	190	185
D	350	325	410	395	390	375

For C, the low rates of shares are less than the average of the low rates of shares of the same company, in the stock exchange(s) at _____.

- Ans**
- ☒ 1. Mumbai
 - ☒ 2. Bengaluru
 - ☒ 3. Hyderabad
 - ☒ 4. Hyderabad and Mumbai

Q.6 If P is a digit such that 6954P is divisible by 11, then P equals:

- Ans**
- ☒ 1. 2
 - ☒ 2. 8
 - ☒ 3. 6
 - ☒ 4. 7

Q.7 In a bank, 6% interest is given on the deposited amount. The bank then invests the money in the stock market and is able to earn ₹30,000 for every ₹3,00,000. How much money is the bank earning finally if the total amount deposited in the bank is ₹60,00,000?

- Ans**
- ☒ 1. ₹3,00,000
 - ☒ 2. ₹6,40,000
 - ☒ 3. ₹2,40,000
 - ☒ 4. ₹3,60,000

- Q.8 The following table shows the expenditure of a factory (in ₹ lakh) per annum on different heads over the given years.

Year/Expenditure Head	Salary	Transport	Bonus	Loan Interest
1998	125	38	8	25
1999	135	45	18	37
2000	149	57	37	39
2001	153	63	50	43

What was the average expenditure (in ₹ lakh) on transport per year that the factory had to pay during the given period?

- Ans
- ☒ 1. 56.63
 - ☒ 2. 48.75
 - ☒ 3. 50.75
 - ☒ 4. 45.58

- Q.9 If $\operatorname{cosec} x = \frac{5}{4}$, then the value of $\frac{5 \sin^2 x + 8 \cot^2 x}{27 \tan^2 x - 125 \cos^2 x}$ is:

- Ans
- ☒ 1. $\frac{33}{91}$
 - ☒ 2. $\frac{77}{30}$
 - ☒ 3. $\frac{55}{87}$
 - ☒ 4. $\frac{99}{47}$

- Q.10 42 litres of milk at ₹25 per litre is mixed with 28 litres of milk at ₹40 per litre. Find the average price of the mixture.

- Ans
- ☒ 1. ₹31.5
 - ☒ 2. ₹32.5
 - ☒ 3. ₹32
 - ☒ 4. ₹31

- Q.11 In triangle ABC, D is the mid-point of BC. If DL perpendicular to AB and DM perpendicular to AC such that DL = DM, then the triangle will be:

- Ans
- ☒ 1. isosceles triangle
 - ☒ 2. right angled triangle
 - ☒ 3. obtuse angle triangle
 - ☒ 4. equilateral triangle

- Q.12 The marked price of a TV set is ₹18,500. If the dealer allows two successive discounts of 20% and 5%, for how much is the TV available?

- Ans
- ☒ 1. ₹14,000
 - ☒ 2. ₹15,000
 - ☒ 3. ₹15,060
 - ☒ 4. ₹14,060

Q.13 Ajay spends $66\frac{2}{3}\%$ of his income on different household items. If his income increases by 25% and expenditure increase by 20%, then the effect on his savings will be:

- Ans**
- ☒ 1. 28%
 - ☒ 2. 61%
 - ☒ 3. 49%
 - ☒ 4. 35%

Q.14 A function of two variable varies directly with x and inversely with y. Determine function when $x = 5$ and $y = 3$. Given that, for $x = 0$ and $y = 1$, $f = 15$ and for $x = 1$ and $y = 15$, $f = 2$.

- Ans**
- ☒ 1. 10
 - ☒ 2. 2
 - ☒ 3. 5
 - ☒ 4. 15

Q.15 In how many years will ₹7,200 amount to ₹8,928 at a simple interest rate of 8% per annum?

- Ans**
- ☒ 1. Four
 - ☒ 2. Three
 - ☒ 3. Two
 - ☒ 4. Five

Q.16 If $\tan(A) = \frac{3}{5}$, then $\cos(A)$ is equal to:

- Ans**
- ☒ 1. $\frac{5}{\sqrt{34}}$
 - ☒ 2. $\frac{9}{\sqrt{34}}$
 - ☒ 3. $\frac{3}{\sqrt{34}}$
 - ☒ 4. $\frac{25}{\sqrt{34}}$

Q.17 The below table shows the sales of motorbikes of four manufacturers from 2016 to 2020 (All the figures are in thousands). Study the table and answer the question that follows.

Manufacturer	2016	2017	2018	2019	2020
P	220	225	235	240	260
Q	280	290	310	310	330
R	350	375	385	390	400
S	400	420	430	440	450

Find the ratio of the total number of sales of the motorbikes of manufacturer Q to the total number of sales of the motorbikes of manufacturer S from 2016 to 2020.

- Ans**
- ☒ 1. 72 : 105
 - ☒ 2. 76 : 107
 - ☒ 3. 74 : 103
 - ☒ 4. 78 : 107

Q.18 If $\sin \theta + \cos \theta = \sqrt{3} \cos \theta$, then the value of $\cot \theta$ is:

- Ans
- ☒ 1. $\sqrt{3} - 1$
 - ☒ 2. $\frac{(\sqrt{3}+1)}{2}$
 - ☒ 3. $\frac{\sqrt{3}-1}{2}$
 - ☒ 4. $\sqrt{3} + 1$

Q.19 Simplify

$$-\frac{7}{6} + \frac{4}{9} \div \frac{5}{3} \times \frac{1}{16}$$

- Ans
- ☒ 1. $-\frac{23}{20}$
 - ☒ 2. $-\frac{23}{18}$
 - ☒ 3. $-\frac{20}{23}$
 - ☒ 4. $-\frac{18}{23}$

Q.20 A circular arc makes an angle of 15° at the centre. If the radius of the circular arc is 14 cm, what is the perimeter (correct up to two decimal places) of the sector so formed? ($\pi = 3.14$)?

- Ans
- ☒ 1. 17.66 cm
 - ☒ 2. 21.32 cm
 - ☒ 3. 35.32 cm
 - ☒ 4. 31.66 cm

Q.21 When $f(m) = m^5 + 5m^4 - 3m + 7$ is divided by $(m - 2)$, then the remainder is

- Ans
- ☒ 1. 7
 - ☒ 2. 5
 - ☒ 3. 0
 - ☒ 4. 113

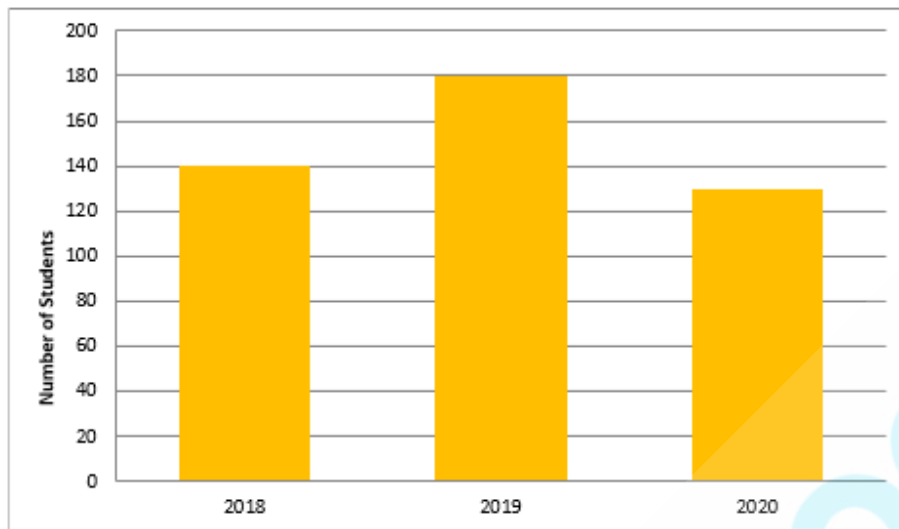
Q.22 There are y yellow marbles and b blue marbles in a box. 18% of the yellow marbles were added to 24% of the blue marbles, and the total was 30. Three times the number of yellow marbles exceeds two times the number of blue marbles by 200. What is the ratio of y^2 to b^2 ?

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

Q.23 If a triangle has a perimeter of 52 units, then all its sides have length _____ units.

- Ans
- ☒ 1. <26
 - ☐ 2. <20
 - ☐ 3. <24
 - ☐ 4. <18

Q.24 The following bar graph shows the number of students who passed the exam of GATE in the given years.



What was the percentage increase in the number of students in 2019 over 2018 (rounded off to two decimal places)?

- Ans
- ☐ 1. 35.79%
 - ☐ 2. 29.52%
 - ☒ 3. 28.57%
 - ☐ 4. 32.25%

Q.25 Two pipes can fill a tank in 12 hours and 18 hours, respectively, while a third pipe can empty it in 8 hours. How long (in hours) will it take to fill the empty tank if all three pipes are opened simultaneously?

- Ans
- ☐ 1. 48
 - ☐ 2. 24
 - ☐ 3. 36
 - ☒ 4. 72

Section : English Comprehension

Q.1 Select the most appropriate synonym of the underlined word in the given sentence.

I was completely mesmerised by the performance.

- Ans
- ☐ 1. Irritated
 - ☐ 2. Annoyed
 - ☐ 3. Bored
 - ☒ 4. Fascinated

Q.2 Select the most appropriate meaning of the given idiom.
Easy does it

- Ans**
- ☒ 1. Used to tell someone to do something rarely
 - ☒ 2. Used to tell someone to do something violently
 - ☒ 3. Used to tell someone to do something slowly and carefully
 - ☒ 4. Used to tell someone to do something horribly

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

- Ans**
- ☒ 1. Tender
 - ☒ 2. Guileless
 - ☒ 3. Dishonest
 - ☒ 4. Irrelevant

Q.4 Select the **INCORRECTLY** spelt word in the given sentence.

Educational technology has become a necessity if one desires excellent output.

- Ans**
- ☒ 1. necessity
 - ☒ 2. excellent
 - ☒ 3. Educational
 - ☒ 4. technology

Q.5 Select the most appropriate meaning of the given idiom.

Cut corners

- Ans**
- ☒ 1. Complete a work
 - ☒ 2. Do something in an inexpensive and easy way
 - ☒ 3. Find a suitable place
 - ☒ 4. Clear a space

Q.6 Identify the error in the following sentence.
Brr, the city view from the Eiffel Tower is amazing!

- Ans**
- ☒ 1. amazing
 - ☒ 2. from
 - ☒ 3. view
 - ☒ 4. Brr

Q.7 Select the option that can be used as a one-word substitute for the given group of words.
A thing fit to eat.

- Ans**
- ☒ 1. Edible
 - ☒ 2. Unpalatable
 - ☒ 3. Uneatable
 - ☒ 4. Toxic

Q.8 Select the option that can be used as a one-word substitute for the given group of words.
A person who deceives others by pretending to be someone else

- Ans**
- ☒ 1. Unrecognisable
 - ☒ 2. Fraud
 - ☒ 3. Impostor
 - ☒ 4. Inaccessible

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

Reluctant

- Ans**
- ☒ 1. Desperate
 - ☒ 2. Obedient
 - ☒ 3. Enthusiastic
 - ☒ 4. Beautiful

Q.10 Select the most appropriate option that can substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'.
If it had not rained, they would not postpone the programmes.

- Ans**
- ☒ 1. would be postponed
 - ☒ 2. no substitution
 - ☒ 3. would not have postponed
 - ☒ 4. would not postponed

Q.11 Select the option that can be used as a one-word substitute for the underlined group of words.

The workers received a sum for the services they rendered.

- Ans**
- ☒ 1. Recruitment
 - ☒ 2. Remembrance
 - ☒ 3. Remuneration
 - ☒ 4. Rejuvenation

Q.12 Select the sentence that does **NOT** have a spelling error.

- Ans**
- ☒ 1. The new caches of materials reveal a secret pleascence that was hidden away from the rest of the world
 - ☒ 2. Statistical patterns and historical data cannot predict the futristic problems that await a civilisation like ours.
 - ☒ 3. Many friends and memoirists have described the author in detail but there are no photos of the author available to the press.
 - ☒ 4. The author is famous for leading a life of subterfuge and contredictions which has led to challenges in understanding past works.

Q.13 The following sentence has been **split** into four **segments**. Identify the segment that contains a grammatical error.
Having known that / the train was already on the platform, / they ran fastly / to catch it.

- Ans**
- ☒ 1. they ran fastly
 - ☒ 2. Having known that
 - ☒ 3. the train was already on the platform
 - ☒ 4. to catch it

Q.14 Select the most appropriate **ANTONYM** of the underlined word in the following sentence.
The movie's plot was predictable, with clichéd twists and turns.

- Ans**
- ☒ 1. undeviating
 - ☒ 2. evident
 - ☒ 3. unexpected
 - ☒ 4. infelicitous

Q.15 Select the option that can be used as a one-word substitute for the underlined group of words.
Foul smell will come if the food is not fresh.

- Ans**
- ☒ 1. brittle
 - ☒ 2. crisp
 - ☒ 3. stale
 - ☒ 4. odourless

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

Capable of being done

- Ans**
- ☒ 1. Suitable
 - ☒ 2. Feasible
 - ☐ 3. Practical
 - ☐ 4. Useful

Q.17 Select the option that expresses the given sentence in active voice.
By whom were you injured?

- Ans**
- ☐ 1. Who has injured you?
 - ☒ 2. Who injured you?
 - ☐ 3. Who had injured you?
 - ☐ 4. Who had been injuring you?

Q.18 Select the most appropriate **ANTONYM** of the underlined word in the given sentence.
The patient was suffering from a chronic disease.

- Ans**
- ☐ 1. Common
 - ☐ 2. Universal
 - ☐ 3. Usual
 - ☒ 4. Mild

Q.19 Select the most appropriate **ANTONYM** of the word in bold.
Many people fought to abolish slavery during the Civil War.

- Ans**
- ☐ 1. kill
 - ☐ 2. terminate
 - ☒ 3. establish
 - ☐ 4. damage

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

Were the plants being grafted by the gardener?

- Ans**
- ☒ 1. Was the gardener grafting the plants?
 - ☐ 2. Was the gardener grafted the plants?
 - ☐ 3. Were the plants grafting the gardener?
 - ☐ 4. Were the gardener grafting the plants?

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.

Rory Cooper was a top aide to former House Majority Leader Eric Cantor, the up-and-coming Virginia Republican who lost a 2014 House primary. He was also a prominent Never Trumper, openly (1) _____ how awful he found the 45th president. The cause Cooper has (2) _____ himself to for the past year, though, is closer to home. He is, as he puts it in his Twitter bio, 'Apparently Mr. Open the Schools'.

A father of a fifth grader, a second grader and a kindergartner, Cooper is (3) _____ because the public schools in Fairfax, Virginia, where he lives, have not reopened. Fairfax, in the Washington, D.C., suburbs, is one of the school districts that has moved (4) _____ toward in-person learning, and it is still not close: only in the past few weeks have students started to return to classrooms, and only about half of those eligible have opted to go back, for an (5) _____ of two days a week.

SubQuestion No : 21

Q.21 Select the most appropriate option to fill in blank no. 1

- Ans**
- ☐ 1. frisking
 - ☐ 2. skipping
 - ☒ 3. detailing
 - ☐ 4. ignoring

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.

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SubQuestion No : 22

Q.22 Select the most appropriate option to fill in blank no. 2

Ans ☒ 1. committed

☐ 2. pacified

☐ 3. sorted

☐ 4. isolated

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.

Rory Cooper was a top aide to former House Majority Leader Eric Cantor, the up-and-coming Virginia Republican who lost a 2014 House primary. He was also a prominent Never Trumper, openly (1) _____ how awful he found the 45th president. The cause Cooper has (2) _____ himself to for the past year, though, is closer to home. He is, as he puts it in his Twitter bio, 'Apparently Mr. Open the Schools'.

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SubQuestion No : 23

Q.23 Select the most appropriate option to fill in blank no. 3

Ans ☐ 1. indebted

☐ 2. provoked

☐ 3. excited

☒ 4. frustrated

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.

Rory Cooper was a top aide to former House Majority Leader Eric Cantor, the up-and-coming Virginia Republican who lost a 2014 House primary. He was also a prominent Never Trumper, openly (1) _____ how awful he found the 45th president. The cause Cooper has (2) _____ himself to for the past year, though, is closer to home. He is, as he puts it in his Twitter bio, 'Apparently Mr. Open the Schools'.

A father of a fifth grader, a second grader and a kindergartner, Cooper is (3) _____ because the public schools in Fairfax, Virginia, where he lives, have not reopened. Fairfax, in the Washington, D.C., suburbs, is one of the school districts that has moved (4) _____ toward in-person learning, and it is still not close: only in the past few weeks have students started to return to classrooms, and only about half of those eligible have opted to go back, for an (5) _____ of two days a week.

SubQuestion No : 24

Q.24 Select the most appropriate option to fill in blank no. 4.

Ans ☐ 1. plainest

☒ 2. slowest

☐ 3. longest

☐ 4. strangest

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.

Rory Cooper was a top aide to former House Majority Leader Eric Cantor, the up-and-coming Virginia Republican who lost a 2014 House primary. He was also a prominent Never Trumper, openly (1) _____ how awful he found the 45th president. The cause Cooper has (2) _____ himself to for the past year, though, is closer to home. He is, as he puts it in his Twitter bio, 'Apparently Mr. Open the Schools'.

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SubQuestion No : 25

Q.25 Select the most appropriate option to fill in blank no. 5.

- Ans**
- ✓ 1. average
 - ✗ 2. amount
 - ✗ 3. ideal
 - ✗ 4. understanding