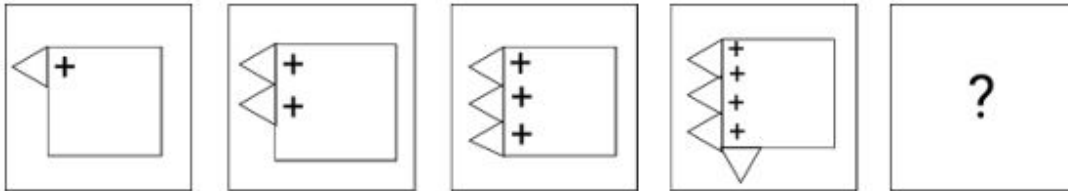


Combined Graduate Level Examination 2024 Tier I

Exam Date	17/09/2024
Exam Time	12:30 PM - 1:30 PM
Subject	Combined Graduate Level Examination Tier I

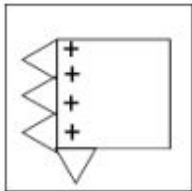
Section : General Intelligence and Reasoning

Q.1 Identify the figure given in the options which when put in place of '?' will logically complete the series.

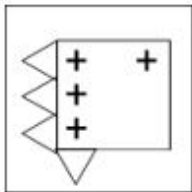


Ans

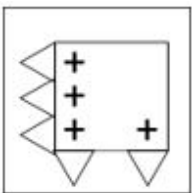
✗ 1.



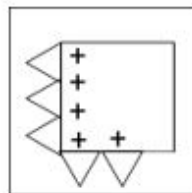
✗ 2.



✗ 3.



✓ 4.



Q.2 34 is related to 191 by certain logic. Following the same logic, 56 is related to 301. To which of the following is 63 related, following the same logic?
(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. 340

✗ 2. 386

✓ 3. 336

✗ 4. 319

Q.3 In a certain code language,

'A + B' means 'A is the mother of B';
'A - B' means 'A is the brother of B';
'A × B' means 'A is the wife of B' and
'A ÷ B' means 'A is the father of B'.

Based on the above, how is 5 related to 2 if ' $5 \div 1 \times 3 \div 4 - 2$ '?

- Ans**
-  1. Father's mother
 -  2. Father's father
 -  3. Mother's mother
 -  4. Mother's father

Q.4 27 is related to 119 following a certain logic. Following the same logic, 33 is related to 143. To which of the following is 42 related, following the same logic? (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. 153
 -  2. 188
 -  3. 179
 -  4. 162

Q.5 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.

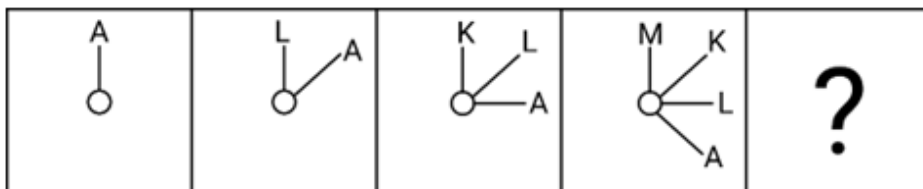
Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.

- Ans**
-  1. HLJ
 -  2. GIK
 -  3. LPN
 -  4. BFD

Q.6 What will come in place of '?' in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?
 $63 \times 9 + 21 - 4 \div 5 = ?$

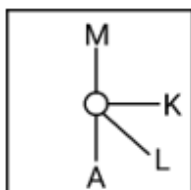
- Ans**
-  1. 4
 -  2. 7
 -  3. 6
 -  4. 5

Q.7 Identify the figure given in the options which when put in place of ? will logically complete the series.

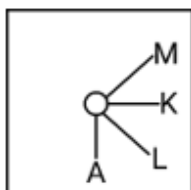


Ans

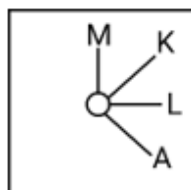
✗ 1.



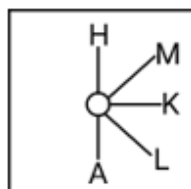
✗ 2.



✗ 3.



✓ 4.



Q.8 Select the number from among the given options that can replace the question mark (?) in the following series.
949, 1006, 1066, 1129, 1195, ?

Ans ✗ 1. 1233

✓ 2. 1264

✗ 3. 1244

✗ 4. 1254

Q.9 In this question, 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:

All computers are printers.

Some printers are laptops.

All laptops are mobiles.

Conclusions:

I. Some printers are computers.

II. Some laptops are printers.

III. Some mobiles are laptops.

Ans ✗ 1. Only conclusion III follows.

✗ 2. Only conclusions II and III follow.

✓ 3. All the conclusions follow.

✗ 4. Only conclusions I and III follow.

Q.10 'ACKO' is related to 'ZXPL' in a certain way based on the English alphabetical order. In the same way, 'HIND' is related to 'SRMW'. To which of the following is 'PUKE' related, following the same logic?

- Ans**
- ☐ 1. JGQW
 - ☒ 2. JGPW
 - ☒ 3. LFQV
 - ☒ 4. KFPV

Q.11 In a certain code language, 'What you think you become' is written as 'Fe Mo Su Ta Za' and 'What you think you achieve' is written as 'Mo Su Te Fe Za'. How will 'achieve' be written in that language?

- Ans**
- ☒ 1. Za
 - ☒ 2. Mo
 - ☒ 3. Te
 - ☒ 4. Fe

Q.12 'Noise' is related to 'Silence' in the same way as 'Light' is related to '_____'.

- Ans**
- ☒ 1. Radiant
 - ☒ 2. Warmth
 - ☒ 3. Brightness
 - ☒ 4. Darkness

Q.13 Which of the following terms will replace the question mark (?) in the given series?
EQBY, GPD~~X~~, ?, KNHV, MMJU

- Ans**
- ☒ 1. IOFW
 - ☒ 2. IPFW
 - ☒ 3. HOFW
 - ☒ 4. IOEW

Q.14 Select the number that will come in the place of the question mark(?), if '+' and '–' are interchanged and '×' and '÷' are interchanged
 $31 \div 3 - 186 \times 6 + 17 = ?$

- Ans**
- ☒ 1. 103
 - ☒ 2. 96
 - ☒ 3. 118
 - ☒ 4. 107

Q.15 Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion/s logically follow/s from the given statements.

Statements:

Some telephones are curtains.

All curtains are lamps.

No lamps is books.

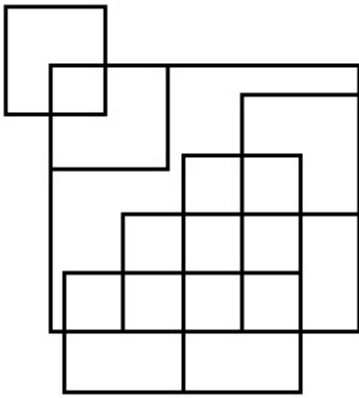
Conclusions:

(I) All lamps are telephones.

(II) No books is lamps.

- Ans**
- ☒ 1. Only conclusion (I) is follow
 - ☒ 2. Only conclusion (II) is follow
 - ☒ 3. Neither conclusion (I) nor (II) is follow
 - ☒ 4. Both conclusions (I) and (II) are follow

Q.16 How many squares are there in the given figure?

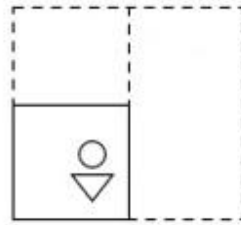
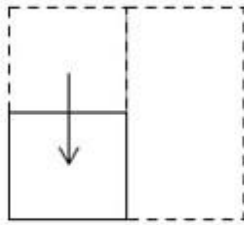
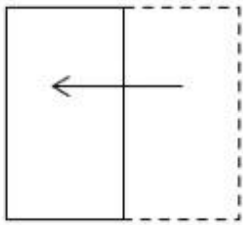


- Ans**
- ☒ 1. 17
 - ☒ 2. 20
 - ☒ 3. 18
 - ☒ 4. 19

Q.17 The same operation(s) are followed in all the given number pairs except one. Find that odd number pair.
(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.)

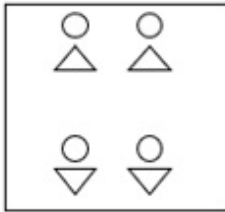
- Ans**
- ☒ 1. 40 : 52
 - ☒ 2. 45 : 54
 - ☒ 3. 35 : 42
 - ☒ 4. 55 : 66

Q.18 A paper is folded and cut as shown below. How will it appear when unfolded?

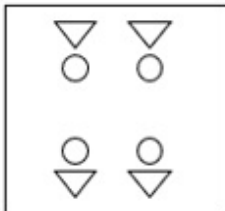


Ans

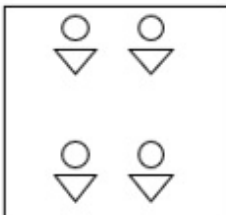
✗ 1.



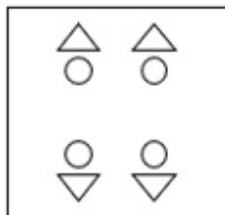
✗ 2.



✗ 3.



✓ 4.



Q.19 In a certain code language, 'TIDE' is coded as '9457' and 'DENT' is coded as '7593'. What is the code for 'N' in that language?

Ans

✗ 1. 5

✗ 2. 7

✓ 3. 3

✗ 4. 9

Q.20 Each of the letters in the word 'LASTING' is arranged in the English alphabetical order. How many letters are there in the English alphabetical series between the letter which is second from the left end and the one which is fourth from the right end in the new letter-cluster thus formed?

Ans

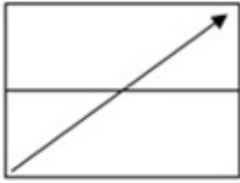
✗ 1. Five

✗ 2. Six

✗ 3. Three

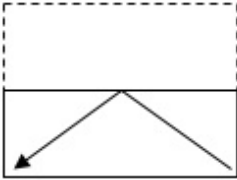
✓ 4. Four

Q.21 A transparent sheet with a pattern is given in the following figure. Identify from amongst the options as to how the pattern would appear when the transparent sheet is folded at the middle horizontal line.

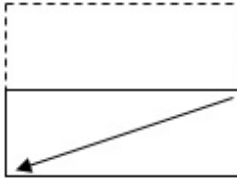


Ans

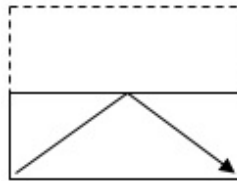
☒ 1.



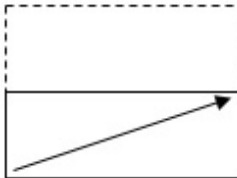
☒ 2.



☒ 3.



☒ 4.



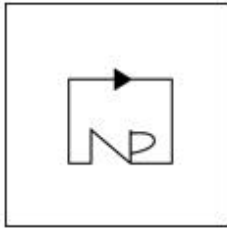
Q.22 Select the option figure in which the given figure (X) is embedded (rotation is NOT allowed).



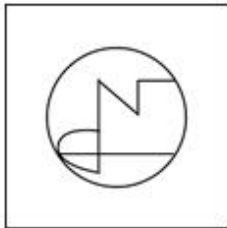
(X)

Ans

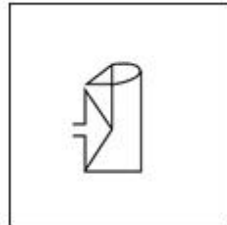
✗ 1.



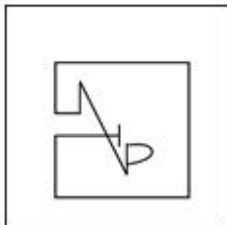
✗ 2.



✓ 3.



✗ 4.



Q.23 Select the option that represents the letters that when placed from left to right in the blanks below will complete the given letter series.

M N _ O J K M _ Q O J K _ N Q _ J K M N Q O _ K M N

Ans

✗ 1. QMNJO

✗ 2. QNJMO

✗ 3. QNMJO

✓ 4. QNMOJ

Q.24 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.)

8 : 79

6 : 51

Ans

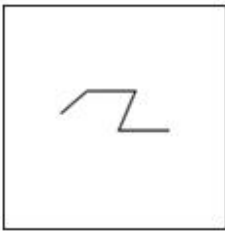
✓ 1. 9 : 96

✗ 2. 5 : 39

✗ 3. 4 : 32

✗ 4. 7 : 62

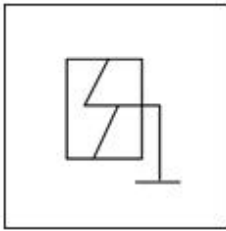
Q.25 Select the option figure in which the given figure (X) is embedded (rotation is NOT allowed).



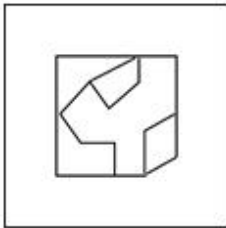
(X)

Ans

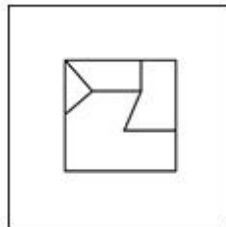
✗ 1.



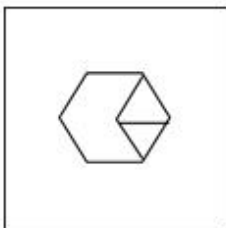
✗ 2.



✓ 3.



✗ 4.



Section : General Awareness

Q.1 Which of the following countries has the highest Hindu population after India?

Ans

✗ 1. Bhutan

✗ 2. Sri Lanka

✗ 3. Myanmar

✓ 4. Nepal

Q.2 Which of the following statements about the aims of National Mission for Sustainable Agriculture (NMSA) of India is/are correct?

- 1.To make agriculture more productive.
- 2.To make agriculture more sustainable.
- 3.To promote organic farming.

Ans

✗ 1. Only 1 is correct.

✗ 2. Only 2 and 3 are correct.

✓ 3. 1, 2 and 3 are correct.

✗ 4. Only 1 and 2 are correct.

Q.3 Who among the following sports persons is designated as brand ambassador for Nikshay Mitra, an initiative under Pradhan Mantri TB Mukh Bharat Abhiyaan by Ministry of Health and Family welfare of GOI in November 2022?

- Ans**
- ☐ 1. Mary Kom
 - ☒ 2. Abhinav Bindra
 - ☒ 3. Pullela Gopichand
 - ☐ 4. Deepa Malik

Q.4 What is subtracted from GDP to arrive at NDP?

- Ans**
- ☒ 1. Subsidies
 - ☐ 2. Depreciation
 - ☒ 3. Net indirect taxes
 - ☒ 4. Net factor income from abroad

Q.5 Indira PP Bora is a Padma Shri Awardee 2020 for her contribution to which Indian classical dance?

- Ans**
- ☐ 1. Sattriya
 - ☒ 2. Kathak
 - ☒ 3. Kuchipudi
 - ☒ 4. Bharatanatyam

Q.6 Follow On is related to which of the following cricket formats?

- Ans**
- ☒ 1. Only T20 matches
 - ☐ 2. Only Test Matches
 - ☒ 3. Only One Day matches
 - ☒ 4. Both test and One-day matches

Q.7 Which of the following is NOT a halogen gas?

- Ans**
- ☒ 1. F
 - ☐ 2. He
 - ☒ 3. Cl
 - ☒ 4. Br

Q.8 Which of the following articles from Directive Principles of state policy mentions about organization of Village Panchayats?

- Ans**
- ☒ 1. Article 38
 - ☒ 2. Article 42
 - ☐ 3. Article 40
 - ☒ 4. Article 36

Q.9 Who among the following is a Sarod player popularly known as ‘Sarod Samrat’?

- Ans**
- ☒ 1. Pandit Kishan Maharaj
 - ☒ 2. Pandit Ravi Shankar
 - ☐ 3. Ustad Amjad Ali Khan Bangash
 - ☒ 4. Pandit Shivkumar Sharma

Q.10 Who among the following rulers built five astronomical observatories at different places in north India?

- Ans**
- ☒ 1. Sawai Mansingh
 - ☒ 2. Maharana Pratap
 - ☐ 3. Sawai Jaisingh II
 - ☒ 4. Madho Singh

Q.11 Which of the following festivals is celebrated in Madhya Pradesh?

- Ans**
- ☐ 1. Thaipusam Festival
 - ☐ 2. Jaisalmer Desert Festival
 - ☒ 3. Bihu Festival
 - ☐ 4. Khajuraho Dance Festival

Q.12 Deimachus who was a Greek ambassador came to India during the reign of the Mauryan king, _____.

- Ans**
- ☒ 1. Shatadhanvan
 - ☐ 2. Bindusara
 - ☒ 3. Ashoka
 - ☒ 4. Chandragupta Maurya

Q.13 Which of the following does NOT belong to the category of Porifera?

- Ans**
- ☐ 1. Hydra
 - ☒ 2. Sycon
 - ☒ 3. Spongilla
 - ☒ 4. Euplectella

Q.14 Which is a serious contagious bacterial infection that usually affects the mucous membranes of the nose and throat?

- Ans**
- ☒ 1. Meningococcal
 - ☐ 2. Diphtheria
 - ☒ 3. Shigellosis
 - ☒ 4. Chlamydia

Q.15 The Maharashtra Bhushan was conferred upon _____ in the year 2002.

- Ans**
- ☒ 1. Pandit Ravi Shankar
 - ☐ 2. Pandit Bhimsen Joshi
 - ☒ 3. Pandit Jasraj
 - ☒ 4. Pandit Hari Prasad Chaurasia

Q.16 Which article of the Constitution of India lays down that it shall be the duty of the Advocate-General to give advice to the Government of the State upon legal matters?

- Ans**
- ☒ 1. Article 168
 - ☐ 2. Article 165
 - ☒ 3. Article 167
 - ☒ 4. Article 166

Q.17 What is the tenure of office for the Chief Election Commissioner?

- Ans**
- ☐ 1. 6 years or up to the age of 65 years
 - ☒ 2. 5 years or up to the age of 65 years
 - ☒ 3. 5 years or up to the age of 60 years
 - ☒ 4. 6 years or up to the age of 60 years

Q.18 What was a significant negative environmental impact of the Green Revolution?

- Ans**
- ☒ 1. Deforestation
 - ☐ 2. Soil degradation
 - ☒ 3. Increase in air pollution
 - ☒ 4. Ozone layer depletion

Q.19 Which of the following peninsular rivers falls into the Arabian Sea?

- Ans**
- ☐ 1. Mahanadi river
 - ☐ 2. Krishna river
 - ☒ 3. Sabarmati river
 - ☐ 4. Godavari river

Q.20 In the ancient temple of Mahadev at Mahabaleshwar, the spout emerging from the mouth of a cow statue is the source of which river basin?

- Ans**
- ☐ 1. Kaveri
 - ☒ 2. Krishna
 - ☐ 3. Godavari
 - ☐ 4. Narmada

Q.21 Which of the following animals was the emblem of the Chola dynasty?

- Ans**
- ☐ 1. Wolf
 - ☐ 2. Horse
 - ☐ 3. Elephant
 - ☒ 4. Tiger

Q.22 Samata Sainik Dal was formed in 1927 by whom among the following personalities?

- Ans**
- ☐ 1. Savitribai Phule
 - ☒ 2. BR Ambedkar
 - ☐ 3. Mahatma Gandhi
 - ☐ 4. Narayana Guru

Q.23 On 29th October 2020, the Ministry of Science and Technology launched the SERB-POWER Scheme. What is the objective of the scheme?

- Ans**
- ☐ 1. To allow reservation for women in the Parliament and Judiciary
 - ☐ 2. To strengthen the solar programme of India with France
 - ☒ 3. To mitigate gender disparity in science and engineering research funding in various academic programmes and laboratories
 - ☐ 4. To allow reservation for women in the Ministry of Science and Technology

Q.24 Which of the following was the mascot of the Khelo India University Games 2022?

- Ans**
- ☐ 1. Bheema
 - ☐ 2. Moga
 - ☒ 3. Jitu
 - ☐ 4. Saavaj

Q.25 The chemical formula of glucose is $C_6H_{12}O_6$. The weight % of carbon in glucose is:

- Ans**
- ☒ 1. 40
 - ☐ 2. 72
 - ☐ 3. 53
 - ☐ 4. 25

Q.1 Study the following table and answer the question that follows.
Expenditures of a Company (in Lakh Rupees) Per Annum over Different Heads in the Given Years

Year	Item of Expenditure				
	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
2010	310	98	3.84	23.4	83
2011	324	112	3.68	32.5	108
2012	338	101	3.00	41.6	74
2013	346	133	2.52	36.4	88
2014	410	142	3.96	49.4	98

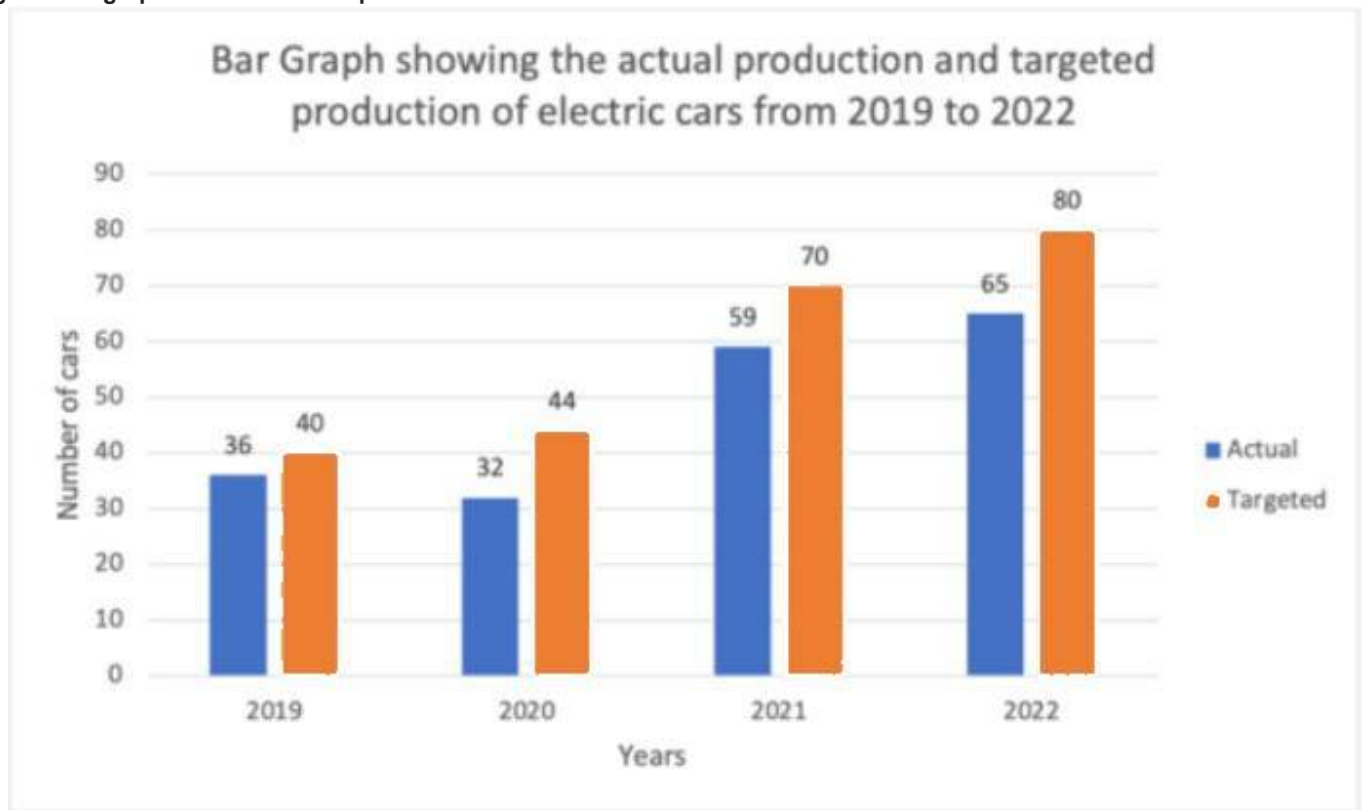
The total amount of bonus paid by the company during the given period is approximately what percentage of the total amount of salary paid during this period? (Rounded off to the nearest integer.)

- Ans**
- ☐ 1. 2%
 - ☐ 2. 1.5%
 - ☐ 3. 2.5%
 - ☒ 4. 1%

Q.2 Two candidates contested in an election. 80% of the voters cast their votes, out of which 5% of the polled votes were invalid. The winning candidate got 70% of valid votes and won by a majority of 36,480 votes. Find the total number of voters.

- Ans**
- ☐ 1. 1,15,000
 - ☒ 2. 1,20,000
 - ☐ 3. 1,25,000
 - ☐ 4. 1,18,000

Q.3 The given bar graph shows the actual production and targeted production of electric cars from 2019 to 2022. Study the given bar graph and answer the question that follows.



What is the ratio of the total targeted production of cars in 2021 and 2022 to the actual production of cars from 2019 to 2022 taken together?

- Ans
- ☒ 1. 32 : 25
 - ☒ 2. 25 : 36
 - ☒ 3. 36 : 25
 - ☒ 4. 25 : 32

Q.4 M and N are, respectively, the centres of two circles of radii 12 cm and 8 cm. QR is the common tangent to the circles. If MN = 16 cm, then what will be the length of QR?

- Ans
- ☒ 1. $5\sqrt{17}$ cm
 - ☒ 2. $4\sqrt{15}$ cm
 - ☒ 3. $3\sqrt{19}$ cm
 - ☒ 4. $6\sqrt{8}$ cm

Q.5 Simplify the following.

$$\left(5 - \frac{15}{16}\right) \times 1\frac{12}{13}$$

- Ans
- ☒ 1. $7\frac{13}{16}$
 - ☒ 2. $7\frac{11}{16}$
 - ☒ 3. $5\frac{13}{16}$
 - ☒ 4. $5\frac{11}{16}$

Q.6 A group of 30 students appeared in a test. The average score of 12 students is 62, and that of the rest is 76. What is the average score of the group?

- Ans**
- ☐ 1. 71.4
 - ☒ 2. 68.4
 - ☒ 3. 69.4
 - ☒ 4. 70.4

Q.7 AB and CD are two parallel chords drawn in a circle with centre O. The distance between the two chords is 21 cm. If the lengths of AB and CD are 24 cm and 18 cm, respectively, then the radius of the circle is equal to:

- Ans**
- ☒ 1. 15 cm
 - ☒ 2. 20 cm
 - ☒ 3. 18 cm
 - ☒ 4. 24 cm

Q.8 A cistern can be filled by two pipes in 8 minutes and 10 minutes, separately. Both the pipes are opened together for a certain time, but due to an obstruction, only $\frac{5}{8}$ of the full quantity of water flowed through the former pipe and $\frac{3}{5}$ through the latter pipe. However, the obstruction was suddenly removed, and the cistern was filled in 3 minutes from that moment. How long did it take before the full flow began?

- Ans**
- ☒ 1. $3\frac{1}{16}$ minutes
 - ☒ 2. $2\frac{6}{17}$ minutes
 - ☒ 3. $9\frac{6}{7}$ minutes
 - ☒ 4. $2\frac{30}{37}$ minutes

Q.9 If $a = x\cos\theta + y\sin\theta$ and $b = x\sin\theta - y\cos\theta$, then $a^2 + b^2$ is equal to:

- Ans**
- ☒ 1. $x + y$
 - ☒ 2. $x^2 - y^2$
 - ☒ 3. $x^2 + y^2$
 - ☒ 4. $x - y$

Q.10 For what value of k, the system of equations $4x + 12y + 36 = 0$ and $5x + ky + 45 = 0$ has an infinite number of solutions?

- Ans**
- ☒ 1. 20
 - ☒ 2. 25
 - ☒ 3. 22
 - ☒ 4. 15

Q.11 A motorboat takes 18 hours to go downstream, and it takes 36 hours to return the same distance. Find the ratio of the speed of the boat in still water to the speed of the stream.

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

Q.12 In right-angled triangle ABC, $\angle C = 90^\circ$, CM is perpendicular on AB. If AB = 18 cm and BM = 6 cm, then find the length of CM.

- Ans**
- ☒ 1. $6\sqrt{2}$ cm
 - ☒ 2. $4\sqrt{2}$ cm
 - ☒ 3. $7\sqrt{2}$ cm
 - ☒ 4. $2\sqrt{2}$ cm

Q.13 Find the least value of x for which 57x716 is divisible by 9.

Ans ☒ 1. 1

☐ 2. 9

☒ 3. 0

☒ 4. 8

Q.14 In a rhombus PQRS, O is any interior point such that $OP = OR$. What is the degree measure of $\angle SOQ$?

Ans ☒ 1. 120°

☒ 2. 180°

☒ 3. 240°

☒ 4. 200°

Q.15 A shopkeeper allows 40% discount on his goods. He further gives 20% discount. What is the single discount equivalent to these two successive discounts?

Ans ☒ 1. 62%

☒ 2. 52%

☒ 3. 60%

☒ 4. 50%

Q.16 The following table shows the categorisation of 100 students based on their marks in Physics and Chemistry in an examination.

Subject	Marks out of 50				
	40 and above	30 and above	20 and above	10 and above	0 and above
Physics	9	32	80	92	100
Chemistry	4	21	66	81	100

If a minimum of 40% marks in Chemistry is required to pursue higher studies in Chemistry, how many students will be eligible to pursue higher studies in Chemistry?

Ans ☒ 1. 66

☒ 2. 25

☒ 3. 45

☒ 4. 21

Q.17 If $8a^3 + b^3 + 27c^3 = 18abc$, then the relation among a, b and c is:

Ans ☒ 1. $b + 3c = 2a$

☒ 2. $2a + b = 3c$

☒ 3. $2a + 3c = b$

☒ 4. $b + 3c = -2a$

Q.18 An article passing through two hands is sold at a total profit of 40% of the original cost price. If the first dealer makes a profit of 30%, then the profit percentage made by the second dealer is:

Ans ☒ 1. $8\frac{6}{13}\%$

☒ 2. $6\frac{3}{13}\%$

☒ 3. $7\frac{1}{13}\%$

☐ 4. $7\frac{9}{13}\%$

Q.19 In a company, the ratio of men and women is 5 : 3, respectively. When 150 additional women are employed in the company, the ratio becomes 5 : 4. How many men are employed in the company?

- Ans
- ☐ 1. 850
 - ☒ 2. 750
 - ☐ 3. 550
 - ☐ 4. 950

Q.20 If $\sin A + \cos A = \frac{1}{2\sqrt{2}}$, then find the value of $\sin^4 A + \cos^4 A$.

- Ans
- ☒ 1. $\frac{79}{128}$
 - ☐ 2. $\frac{7}{13}$
 - ☐ 3. $\frac{79}{126}$
 - ☐ 4. $\frac{5}{13}$

Q.21 Find the value of $\left[\frac{4 \cos(90 - \theta) \sin^2(90 + \theta) - 4 \sin(90 + \theta) \cos^2(90 - \theta)}{\cos\left(\frac{180 + 8\theta}{2}\right)} \right]$.

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

Q.22 If $a^3 + 3a^2 + 3a = 7$, then the value of $a^2 + 2a$ is:

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

Q.23 What is the rate of interest per annum for simple interest at which ₹1,040 amounts to ₹1,230 in $1\frac{1}{2}$ years?

- Ans
- ☐ 1. $11\frac{7}{39}\%$
 - ☐ 2. $10\frac{7}{39}\%$
 - ☒ 3. $12\frac{7}{39}\%$
 - ☐ 4. $13\frac{7}{39}\%$

Q.24 The table shows the production of different types of bikes (in thousands).

Years	2015	2016	2017	2018
Bikes				
A	157	194	271	290
B	138	225	146	206
C	255	227	213	239
D	196	304	162	224

The number of years, in which the production of bikes of type C is less than the average production of type A bikes over the years is

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

Q.25 If the height and diameter of a cylinder are 12 cm and 28 cm, respectively, then find the ratio of the total surface area to the curved surface area.

- Ans**
- ☐ 1. 13 : 5
 - ☐ 2. 10 : 3
 - ☒ 3. 13 : 6
 - ☐ 4. 11 : 6

Section : English Comprehension

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

To bring to light

- Ans**
- ☐ 1. To engage in conversation
 - ☐ 2. To lighten
 - ☒ 3. To disclose
 - ☐ 4. To disengage

Q.2 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- (a) false news websites
- (b) spreading propaganda about politics
- (c) thrive because the advertisements and politicians
- (d) and social networking sites
- (e) make a lot of money

- Ans**
- ☐ 1. aecbd
 - ☒ 2. adcbe
 - ☐ 3. adecb
 - ☐ 4. aedcb

Q.3 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

P) willing to go
Q) is not
R) my son
S) camping

- Ans**
- ☒ 1. RQPS
 - ☐ 2. SPRQ
 - ☐ 3. PQRS
 - ☐ 4. QRSP

Q.4 Select the most appropriate homophone to fill in the blank.

The ointment will help to _____ the wound.

- Ans**
- ☐ 1. he'll
 - ☐ 2. heel
 - ☒ 3. heal
 - ☐ 4. kneel

Q.5 Select the most appropriate ANTONYM of the given word.
Attack

- Ans**
- ☐ 1. Ambush
 - ☒ 2. Defence
 - ☐ 3. Production
 - ☐ 4. Engagement

Q.6 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. It was as simple as announcing what you have in your store or the services you offer in your premises.
B. Over the years, advertising has evolved into a major industry that goes beyond informing to persuading and influencing.
C. Advertising was initially meant to make people aware of the goods available in the market.
D. It is a form of brainwashing consumers.

- Ans**
- ☐ 1. BADC
 - ☐ 2. ADBC
 - ☐ 3. DABC
 - ☒ 4. CABD

Q.7 Select the most appropriate ANTONYM of the underlined word.
We should plan our actions judiciously before going to war.

- Ans**
- ☐ 1. Irreverent
 - ☒ 2. Irrational
 - ☐ 3. Irrelevant
 - ☐ 4. Irritatingly

Q.8 Select the sentence that has a grammatical error.

- Ans**
- ☐ 1. It is said that Joseph was not ready to go to war.
 - ☐ 2. Karl Marx was a renowned social scientist.
 - ☒ 3. Indian force are known for their loyalty and integrity.
 - ☐ 4. It is impossible to wake Christine up in the morning.

Q.9 Select the correct meaning of the underlined idiom in the following sentence.

Rina pulled a long face since her husband had not bought her a diamond necklace on their anniversary.

- Ans**
- ☐ 1. To be euphoric
 - ☒ 2. To be ecstatic
 - ☐ 3. To look saddened
 - ☐ 4. To be electrified

Q.10 Select the correct spelling to fill in the blank.

The thought of eating half-cooked food under compulsion fills me with _____.

- Ans**
- ☒ 1. ripugnance
 - ☐ 2. repegnance
 - ☐ 3. repugnance
 - ☐ 4. repugnence

Q.11 Select the INCORRECTLY spelt word from the given sentence .

The resturant offers a wide variety of dishes.

- Ans**
- ☒ 1. variety
 - ☐ 2. resturant
 - ☐ 3. dishes
 - ☐ 4. offers

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

They are building a new hospital in the city.

- Ans**
- ☒ 1. A new hospital was built in the city by them.
 - ☐ 2. A new hospital has been built in the city by them.
 - ☐ 3. A new hospital will be built in the city by them.
 - ☐ 4. A new hospital is being built in the city by them.

Q.13 Select the most appropriate option to substitute the underlined part of the given sentence. If there is no need to substitute it, select 'No substitution'.

As the rulers of the planet, humans like to think that it is the largest creatures that will emerge victorious from the struggle for survival.

- Ans**
- ☒ 1. No substitution
 - ☐ 2. it is the most large creatures
 - ☐ 3. they are a largest creature
 - ☐ 4. they are the largest creatures

Q.14 Select the most appropriate option to substitute the underlined segment in the given sentence.

Experts acknowledged that some counterfeiting of document techniques are virtually impossible to detect.

- Ans**
- ☒ 1. fiasco
 - ☐ 2. forgery
 - ☐ 3. impromptu
 - ☐ 4. frenzy

Q.15 Select the option that expresses the given sentence in passive voice.

They have built a new bridge across the river.

- Ans**
- ☐ 1. A new bridge has been built across the river by them.
 - ☒ 2. A new bridge by them has been built across the river.
 - ☐ 3. A new bridge has built across the river by them.
 - ☐ 4. The river has been built a new bridge by them.

Q.16 Select the most appropriate ANTONYM of the word in the brackets to fill in the blank.

The chef requires _____ vegetables for the salad. [stale]

- Ans**
- ☐ 1. green
 - ☒ 2. fresh
 - ☐ 3. cut
 - ☐ 4. leafy

Q.17 Select the most appropriate ANTONYM of the underlined word in the sentence given below.
I refuse to let anything come in the way of my dreams.

- Ans**
- ☐ 1. repress
 - ☐ 2. balk
 - ☐ 3. accord
 - ☒ 4. permit

Q.18 The following sentence has been split into four segments. Identify the segment that contains an error.

The principal gave up / the prizes to / the winners on / Republic Day.

- Ans**
- ☒ 1. The principal gave up
 - ☐ 2. the winners on
 - ☐ 3. the prizes to
 - ☐ 4. Republic Day

Q.19 Select the option that can be used as a one-word substitute for the underlined group of words in the following sentence.
Almost immediately, they heard the high shrill piercing cry of tires on the side road.

- Ans**
- ☐ 1. beseech
 - ☐ 2. creche
 - ☒ 3. screech
 - ☐ 4. bleach

Q.20 Select the most appropriate ANTONYM of the given word.
Synthetic

- Ans**
- ☐ 1. Artificial
 - ☐ 2. Imitation
 - ☐ 3. Processed
 - ☒ 4. Natural

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.

The adverse (1)_____ of climate change and environmental degradation are increasingly driving human mobility the world over, particularly in countries with high exposure and low (2)_____ capacity. While most climate-related mobility currently occurs within countries, desperation and deteriorating environments can also compel people to seek a livelihood elsewhere through (3)_____ migration. While climate change negatively impacts everyone, everywhere, those already in vulnerable situations due to geography, poverty, gender, age, disability, origin, or other status, including migrant women who (4)_____ climate-sensitive livelihoods, and children who are less able to survive extreme weather events, are at the greatest risk of suffering harm. It is (5)_____ to recognise this reality and take meaningful action to protect the human rights of those most affected by climate change, including migrants.

SubQuestion No : 21

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

- Ans**
- ☐ 1. renounce
 - ☐ 2. affects
 - ☒ 3. effects
 - ☐ 4. practice

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.

The adverse (1)_____ of climate change and environmental degradation are increasingly driving human mobility the world over, particularly in countries with high exposure and low (2)_____ capacity. While most climate-related mobility currently occurs within countries, desperation and deteriorating environments can also compel people to seek a livelihood elsewhere through (3)_____ migration. While climate change negatively impacts everyone, everywhere, those already in vulnerable situations due to geography, poverty, gender, age, disability, origin, or other status, including migrant women who (4)_____ climate-sensitive livelihoods, and children who are less able to survive extreme weather events, are at the greatest risk of suffering harm. It is (5)_____ to recognise this reality and take meaningful action to protect the human rights of those most affected by climate change, including migrants.

SubQuestion No : 22

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

- Ans**
- ☒ 1. adaptive
 - ☐ 2. adoptive
 - ☐ 3. minimum
 - ☐ 4. affective

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.

The adverse (1)_____ of climate change and environmental degradation are increasingly driving human mobility the world over, particularly in countries with high exposure and low (2)_____ capacity. While most climate-related mobility currently occurs within countries, desperation and deteriorating environments can also compel people to seek a livelihood elsewhere through (3)_____ migration. While climate change negatively impacts everyone, everywhere, those already in vulnerable situations due to geography, poverty, gender, age, disability, origin, or other status, including migrant women who (4)_____ climate-sensitive livelihoods, and children who are less able to survive extreme weather events, are at the greatest risk of suffering harm. It is (5)_____ to recognise this reality and take meaningful action to protect the human rights of those most affected by climate change, including migrants.

SubQuestion No : 23

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

- Ans**
- ☐ 1. regard
 - ☐ 2. fast
 - ☐ 3. fixate
 - ☒ 4. irregular

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.

The adverse (1)_____ of climate change and environmental degradation are increasingly driving human mobility the world over, particularly in countries with high exposure and low (2)_____ capacity. While most climate-related mobility currently occurs within countries, desperation and deteriorating environments can also compel people to seek a livelihood elsewhere through (3)_____ migration. While climate change negatively impacts everyone, everywhere, those already in vulnerable situations due to geography, poverty, gender, age, disability, origin, or other status, including migrant women who (4)_____ climate-sensitive livelihoods, and children who are less able to survive extreme weather events, are at the greatest risk of suffering harm. It is (5)_____ to recognise this reality and take meaningful action to protect the human rights of those most affected by climate change, including migrants.

SubQuestion No : 24

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

- Ans**
- ☐ 1. depend from
 - ☐ 2. depend at
 - ☒ 3. depend on
 - ☐ 4. depend in

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.

The adverse (1)_____ of climate change and environmental degradation are increasingly driving human mobility the world over, particularly in countries with high exposure and low (2)_____ capacity. While most climate-related mobility currently occurs within countries, desperation and deteriorating environments can also compel people to seek a livelihood elsewhere through (3)_____ migration. While climate change negatively impacts everyone, everywhere, those already in vulnerable situations due to geography, poverty, gender, age, disability, origin, or other status, including migrant women who (4)_____ climate-sensitive livelihoods, and children who are less able to survive extreme weather events, are at the greatest risk of suffering harm. It is (5)_____ to recognise this reality and take meaningful action to protect the human rights of those most affected by climate change, including migrants.

SubQuestion No : 25

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

- Ans**
- ☐ 1. optional
 - ☐ 2. secondary
 - ☐ 3. resistant
 - ☒ 4. imperative