

## Combined Graduate Level Examination 2024 Tier I

|           |                                            |
|-----------|--------------------------------------------|
| Exam Date | 25/09/2024                                 |
| Exam Time | 9:00 AM - 10:00 AM                         |
| Subject   | Combined Graduate Level Examination Tier I |

### Section : General Intelligence and Reasoning

**Q.1** Which letter-cluster will replace the question mark (?) to complete the given series?  
CQJG, ERMJ, ?, ITSP, KUVS

- Ans
- ☐ 1. GSQM
  - ☐ 2. GRPM
  - ☒ 3. GSPM
  - ☐ 4. GTPM

**Q.2** All the six members of a family, 1, 2, 3, 4, 5 and 6, live together. 2 is the daughter of 3, but 3 is not the mother of 2. 1 and 3 are a married couple. 5 is the sister of 3. 4 is the daughter of 1. 6 is the brother of 2. Who is the mother of 2?

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

**Q.3** Select the number from among the given options that can replace the question mark (?) in the following series.  
35, 46, 68, 101, 145, ?

- Ans
- ☒ 1. 200
  - ☐ 2. 214
  - ☐ 3. 212
  - ☐ 4. 210

**Q.4** Select the option that represents the letters that when sequentially placed from left to right in the blanks below will complete the letter series.

Z \_ A \_ Z \_ \_ Z A \_ Z \_

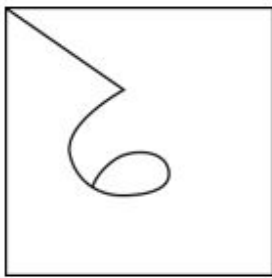
- Ans
- ☐ 1. AZZAZZ
  - ☐ 2. AZAZAZ
  - ☒ 3. ZZAZZA
  - ☐ 4. ZZZAAA

**Q.5** 11 is related to 121 following a certain logic. Following the same logic, 22 is related to 484. To which of the following is 31 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. 961
  - ☐ 2. 957
  - ☐ 3. 943
  - ☐ 4. 973

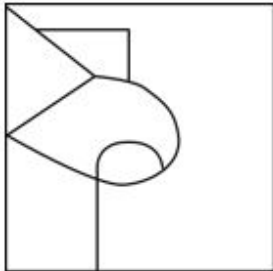
Q.6 Select the option figure in which the given figure (X) is embedded (rotation is NOT allowed).



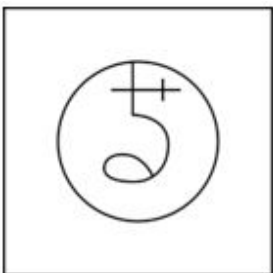
(X)

Ans

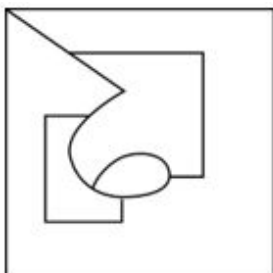
✗ 1.



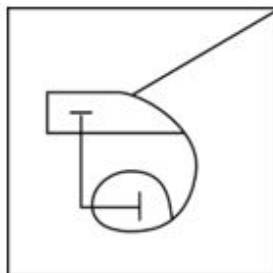
✗ 2.



✓ 3.



✗ 4.



Q.7 In a certain code language, 'EAGLE' is written as 'DZFKD' and 'DREAM' is written as 'CQDZL'. How will 'SINCE' be written in that language?

- Ans
- ✗ 1. RJOB
  - ✗ 2. THMDF
  - ✓ 3. RHMBD
  - ✗ 4. TJODF

Q.8 Select the term from among the given options that can replace the question mark (?) in the given series.  
HM71, JP68, LS65, NV62, ?

- Ans
- ✗ 1. QY57
  - ✗ 2. RX59
  - ✗ 3. QX58
  - ✓ 4. PY59

**Q.9** Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

**Statements:**

Some vegetables are fruits.  
Some fruits are flowers.  
All flowers are garlands.

**Conclusions:**

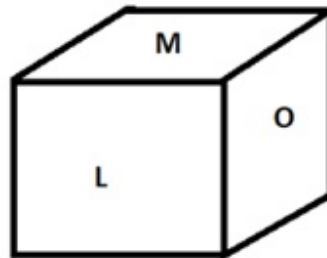
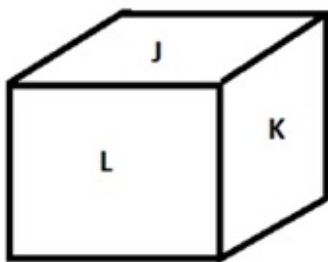
- I. Some garlands are fruits.
- II. Some vegetables are flowers.
- III. Some vegetables are garlands.

**Ans**    ☒ 1. Only conclusions I and II follow  
          ☒ 2. Only conclusion I follows  
          ☒ 3. Only conclusions II and III follow  
          ☒ 4. Only conclusions I and III follow

**Q.10** 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.)

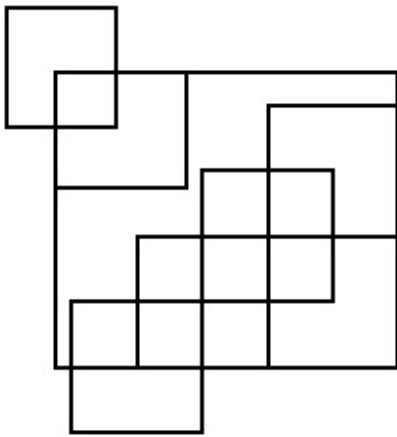
**Ans**    ☒ 1. 7 : 15  
          ☒ 2. 11 : 121  
          ☒ 3. 22 : 45  
          ☒ 4. 5 : 11

**Q.11** Six letters J, K, L, M, N and O 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 N.



**Ans**    ☒ 1. M  
          ☒ 2. L  
          ☒ 3. J  
          ☒ 4. K

Q.12 How many squares are there in the figure shown below?



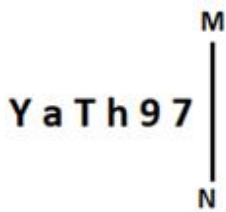
Ans ☒ 1. 17

☐ 2. 18

☐ 3. 16

☐ 4. 15

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



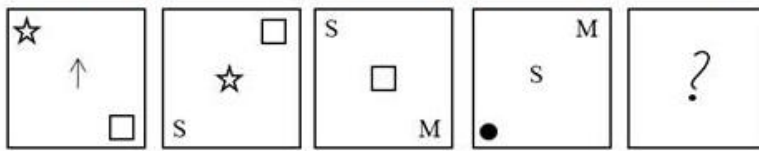
Ans ☐ 1. Y a T h 9 7

☐ 2. Y a T h 9 7

☒ 3. Y a T h 9 7

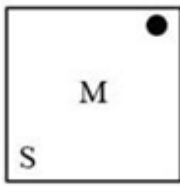
☐ 4. 7 9 4 T a Y

**Q.14** Select the figure from among the given options that can replace the question mark (?) and complete the pattern.

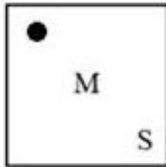


**Ans**

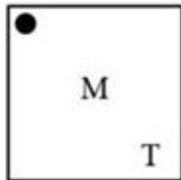
✗ 1.



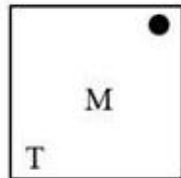
✗ 2.



✓ 3.



✗ 4.



**Q.15** Select the set in which the numbers are related in the same way as are the numbers of the following set.  
(24, 15, 120)  
(21, 19, 133)

(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. (18, 16, 99)

✗ 2. (31, 9, 96)

✗ 3. (33, 10, 170)

✓ 4. (27, 12, 108)

**Q.16** 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.

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

**Ans**

✗ 1. YWVT

✗ 2. NLKI

✓ 3. WVTS

✗ 4. SQPN

**Q.17** Select the correct combination of mathematical signs to sequentially place from left to right in the blanks below to balance the given equation.

$$75 \_ 3 \_ 17 \_ 8 = 0$$

**Ans**

✗ 1.  $\times, +, -$

✗ 2.  $-, -, \times$

✗ 3.  $-, -, +$

✓ 4.  $\div, -, -$

**Q.18** In a certain code language, 'EXCESS' is written as '726572121', 'ENERGY' is written as '716720927', how will 'ESCAPE' be written in that language?

- Ans**
- 1. 72153165
  - ✗ 2. 72151167
  - ✓ 3. 72153187
  - ✗ 4. 71933187

**Q.19** Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.  
CRW: TIN :: DOZ: UFQ :: ALW:?

- Ans**
- ✗ 1. JCN
  - ✓ 2. RCN
  - ✗ 3. RCM
  - ✗ 4. JCM

**Q.20** Select the figure from among the given option that can replace the question mark (?) in the following series.

|   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | △ | N | O | 4 | 2 | N | P | 4 | 2 | S | △ | ? |
|   | P |   |   | △ |   |   | O |   |   | P |   |   |
| 2 | 4 | O | N | P | S | △ | S | 2 | 4 | O | N |   |

**Ans**

- ✗ 1. 

|   |   |   |
|---|---|---|
| 4 | 2 | N |
|   | △ |   |
| O | S | P |
- ✗ 2. 

|   |   |   |
|---|---|---|
| △ | 2 | S |
|   | 4 |   |
| O | N | P |
- ✗ 3. 

|   |   |   |
|---|---|---|
| 4 | O | 2 |
|   | S |   |
| N | P | △ |
- ✓ 4. 

|   |   |   |
|---|---|---|
| 4 | O | S |
|   | 2 |   |
| P | N | △ |

**Q.21** Which number will come in the place of the question mark (?) in the following equation if '+' and '-' are interchanged and '×' and '÷' are interchanged?  
 $27 \times 3 + 4 \div 2 - 7 = ?$

- Ans**
- ✗ 1. 6
  - ✗ 2. 10
  - ✗ 3. 9
  - ✓ 4. 8

**Q.22** The question contains pairs of words that are related to each other in a certain way. Three of the following four word pairs are alike as these have the same relationship and thus form a group. Which word pair is the one that DOES NOT belong to that group?

(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. Shoes – feet
  - ✗ 2. Book – pages
  - ✗ 3. Spectacles – lens
  - ✗ 4. Flowers – petals

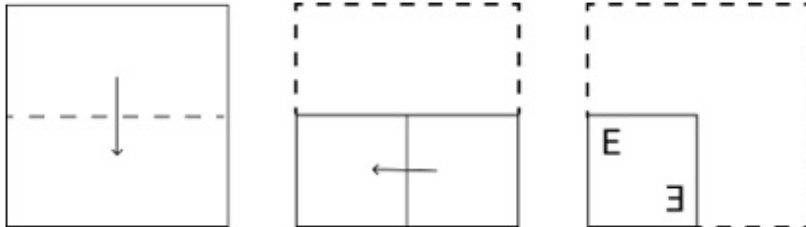
**Q.23** Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

4 : 68 :: 8 : 136 :: 9 : ?

(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.)

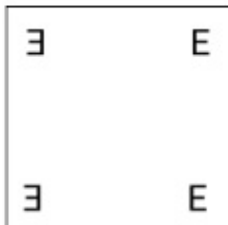
- Ans**
- ✗ 1. 152
  - ✗ 2. 149
  - ✗ 3. 147
  - ✓ 4. 153

**Q.24** A paper is folded and cut as shown below. How will it appear when unfolded?

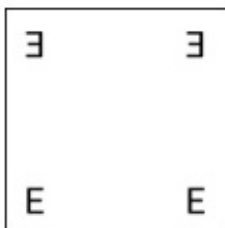


**Ans**

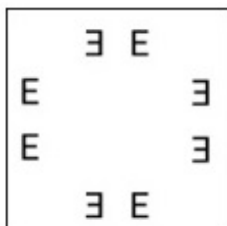
✗ 1.



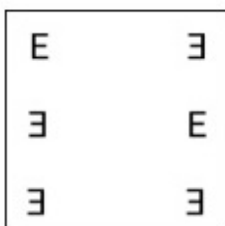
✗ 2.



✓ 3.



✗ 4.



**Q.25** The position of how many letters will change if each of the letters in the word 'CORNFLAKES' is re-arranged in the English alphabetical order from left to right?

- Ans**
- ☒ 1. Nine
  - ☐ 2. Seven
  - ☒ 3. Eight
  - ☐ 4. Ten

Section : **General Awareness**

**Q.1** Which Article of the Indian Constitution provides for protecting and improving the environment and safeguarding forests and wildlife?

- Ans**
- ☐ 1. Article 47-A
  - ☐ 2. Article 47-B
  - ☒ 3. Article 48-A
  - ☐ 4. Article 49-C

**Q.2** According to Mendeleev's Periodic Table, which elements' properties matched up remarkably well with eka-silicon?

- Ans**
- ☐ 1. Gallium
  - ☐ 2. Scandium
  - ☐ 3. Titanium
  - ☒ 4. Germanium

**Q.3** The Atal Innovation Mission was launched in year \_\_\_\_\_.

- Ans**
- ☐ 1. 2021
  - ☒ 2. 2016
  - ☐ 3. 2014
  - ☐ 4. 2004

**Q.4** Ishwari Prasad is credited to have introduced the \_\_\_\_\_ Gharana of Kathak.

- Ans**
- ☐ 1. Jaipur
  - ☐ 2. Raigarh
  - ☐ 3. Banaras
  - ☒ 4. Lucknow

**Q.5** Which essential amino acid enhances calcium absorption and also plays an important role in the formation of collagen?

- Ans**
- ☐ 1. Arginine
  - ☐ 2. Tyrosine
  - ☒ 3. Lysine
  - ☐ 4. Histidine

**Q.6** Which of the following is an example of an eastern coast port?

- Ans**
- ☐ 1. Mumbai Port
  - ☒ 2. Chennai Port
  - ☐ 3. Mormugao Port
  - ☐ 4. New Mangalore Port

**Q.7** Who suggested the law that the British Government passed in 1856 to support widow remarriage?

- Ans**
- ☐ 1. Keshub Chandra Sen
  - ☒ 2. Ishwar Chandra Vidyasagar
  - ☐ 3. Atmaram Pandurang
  - ☐ 4. Raja Ram Mohan Roy

**Q.8** In 2022, Vinay Mohan Kwatra took charge as the Foreign Secretary of India. Prior to this, he served as the ambassador to which of the following countries?

- Ans**
- ☒ 1. Bhutan
  - ☐ 2. Sri Lanka
  - ☒ 3. Nepal
  - ☐ 4. Maldives

**Q.9** An organic reaction used to convert an aryl diazonium salt into an aryl halide using a copper(I) halide catalyst is called:

- Ans**
- ☐ 1. Finkelstein reaction
  - ☐ 2. Gattermann reaction
  - ☒ 3. Sandmeyer reaction
  - ☐ 4. Balz-Schiemann reaction

**Q.10** Pulakeshin II assumed the title of ‘Dakshinapatheshvara’ (lord of the south) after defeating which of the following rulers of north India?

- Ans**
- ☐ 1. Rudrasena II
  - ☒ 2. Harshavardhana
  - ☐ 3. Dhruvasena II
  - ☐ 4. Prabhakarvardhana

**Q.11** In chess which of the following may move only diagonally?

- Ans**
- ☒ 1. The Bishop
  - ☐ 2. The Knight
  - ☐ 3. The Queen
  - ☐ 4. The Rook

**Q.12** Which famous santoor player was honoured with the Ustad Hafiz Ali Khan Award in 1998?

- Ans**
- ☐ 1. Tarun Bhattacharya
  - ☒ 2. Shivkumar Sharma
  - ☐ 3. Satish Vyas
  - ☐ 4. Abhay Sopori

**Q.13** Match the points under Column A with those under Column B.

Column A (Disease)

Column B (Organism Responsible)

i. Malaria

a. Vibrio

ii. Diarrhoea

b. Salmonella

iii. Typhoid

c. Rotavirus

iv. Cholera

d. Plasmodium

- Ans**
- ☐ 1. i-b, ii-a, iii-c, iv-d
  - ☒ 2. i-d, ii-c, iii-b, iv-a
  - ☐ 3. i-a, ii-c, iii-b, iv-d
  - ☐ 4. i-a, ii-b, iii-c, iv-d

**Q.14** In 1910, The United India House at Seattle, USA, was set up by \_\_\_\_\_.

- Ans**
- ☐ 1. Shyamji Krishna Varma
  - ☒ 2. Tarak Nath Das and GD Kumar
  - ☐ 3. Khudiram Bose and Prafulla Chaki
  - ☐ 4. VD Savarkar and Ganesh

**Q.15** Alla Rakha is famous for playing which of the following musical instruments?

- Ans**
- ☐ 1. Damaru
  - ☐ 2. Bansuri
  - ☒ 3. Shehnai
  - ☐ 4. Tabla

**Q.16** The record obtained by the measurement of earthquake is called a:

- Ans**
- ☒ 1. seismograph
  - ☐ 2. seismogram
  - ☒ 3. seismology
  - ☒ 4. seismic wave

**Q.17** Makar Sankranti is the festival dedicated to which of the following Lords?

- Ans**
- ☒ 1. Ganesha
  - ☐ 2. Surya
  - ☒ 3. Chandra
  - ☒ 4. Indra

**Q.18** What is the primary objective of the Micro, Small, and Medium Enterprises Development (MSMED) Act of 2006 in India?

- Ans**
- ☒ 1. To regulate foreign companies
  - ☒ 2. To focus on large-scale industries only
  - ☒ 3. To increase import tariffs to protect MSMEs
  - ☐ 4. To promote and facilitate the development of MSMEs

**Q.19** NDP = \_\_\_\_\_.

- Ans**
- ☐ 1. GDP – Depreciation
  - ☒ 2. GDP + Depreciation
  - ☒ 3. GDP – Net factor income from abroad
  - ☒ 4. GDP + Net factor income from abroad

**Q.20** Which part of the Indian Constitution deals with the Election Commission?

- Ans**
- ☐ 1. Part XV
  - ☒ 2. Part XII
  - ☒ 3. Part IV
  - ☒ 4. Part XI

**Q.21** Ghiyas ud-din Balban had set up a \_\_\_\_\_ department called 'Diwan-i-arz'.

- Ans**
- ☐ 1. military
  - ☒ 2. commerce
  - ☒ 3. education
  - ☒ 4. agriculture

**Q.22** According to Census of India 2011, female adolescents in the age group of 10-19 years had a share of:

- Ans**
- ☒ 1. 52.7%
  - ☐ 2. 47.3%
  - ☒ 3. 31.3%
  - ☒ 4. 20.9%

**Q.23** When did a States Reorganisation Commission was set up, which recommended the creation of linguistic States on the basis of larger linguistic groups?

- Ans**
- ☐ 1. December 1963
  - ☒ 2. December 1953
  - ☐ 3. December 1956
  - ☐ 4. December 1958

**Q.24** Which of the following is associated with the retreating monsoon in India?

- Ans**
- ☐ 1. Mahawat
  - ☐ 2. Kaal Baisakhi
  - ☒ 3. October heat
  - ☐ 4. Loo

**Q.25** Where was the Durand Cup Tournament started in India in 1888?

- Ans**
- ☐ 1. Mumbai
  - ☐ 2. Calcutta
  - ☒ 3. Shimla
  - ☐ 4. Delhi

Section : Quantitative Aptitude

**Q.1** The salaries of P and Q together amount to ₹9,60,000. P and Q save 64% and 44%, respectively of their individual salaries. If P's expenditure is 1.5 times Q's expenditure, then what is the ratio of P's salary to Q's salary?

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

**Q.2**  $9 \div \left[ 1 + \left\{ 4 \times \left( \frac{5}{6} - \frac{1}{3} + \frac{1}{2} \right) \right\} \right]$  is equal to:

- Ans**
- ☐ 1. 1
  - ☐ 2.  $\frac{9}{5}$
  - ☐ 3. 0
  - ☒ 4. 9

**Q.3** Evaluate  $2 \frac{\tan 54^\circ}{\cot 36^\circ} - \frac{\cot 41^\circ}{\tan 49^\circ}$ .

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

**Q.4** It is always possible to draw a circle passing through \_\_\_\_\_ non-collinear points in a plane.

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

**Q.5** Rohini buys a Bluetooth headphone set for ₹1,700 from a wholesale shop and marks it at ₹2,000. Later on, she allows a discount of 40% on its sale. What is her loss or gain percentage (correct up to two decimal places)?

- Ans**
- ☐ 1. 25.19% loss
  - ☒ 2. 29.41% gain
  - ☐ 3. 29.41% loss
  - ☐ 4. 25.19% gain

**Q.6** The average of the squares of the first 48 natural numbers is

- Ans**
- ☒ 1. 793.17
  - ☐ 2. 791.17
  - ☐ 3. 794.17
  - ☐ 4. 792.17

**Q.7** An inlet pipe can fill a water storage tank in 11 hours and an outlet pipe can empty the completely filled tank in 15 hours .If both pipes opened simultaneously. The time taken to fill the empty tank ( in hrs) is :

- Ans**
- ☒ 1.  $45\frac{1}{2}$
  - ☐ 2.  $41\frac{1}{4}$
  - ☐ 3.  $49\frac{3}{4}$
  - ☐ 4. 40

**Q.8** If  $a^3 + \frac{1}{a^3} = 2$  ( $a > 0$ ), then the value of  $a + \frac{1}{a}$  is:

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

**Q.9** Study the given table and answer the question that follows.  
The given table shows the production of three types of cars (A, B and C) manufactured (in thousands) by an automobile company over the years.

| Year | A   | B   | C    |
|------|-----|-----|------|
| 2015 | 840 | 680 | 890  |
| 2016 | 900 | 750 | 960  |
| 2017 | 760 | 620 | 1000 |
| 2018 | 800 | 540 | 1200 |

The total number of A-type cars produced by the company from 2015 to 2017 is what percentage (rounded off to the nearest integer) is more or less than the total number of C-type cars produced by the company from 2016 to 2018?

- Ans**
- ☒ 1. More, 24%
  - ☐ 2. Less, 24%
  - ☐ 3. Less, 21%
  - ☐ 4. More, 21%

Q.10

Ans

✗ 1.

✗ 2.  $-\frac{1}{4}$

✓ 3.  $-\frac{1}{3}$

✗ 4.  $\frac{1}{6}$

Q.11 The simple interest on a sum for 6 years is three-fifth of the sum. The rate of interest per annum is:

Ans

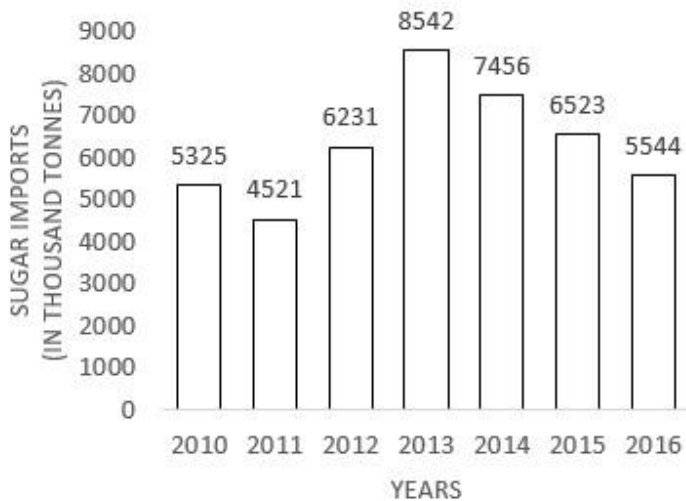
✗ 1. 3%

✗ 2. 7%

✓ 3. 10%

✗ 4. 5%

Q.12 The given bar graph shows sugar imports of a country (in thousand tonnes) over the years. Study the graph and answer the question that follows.



The average imports (in thousand tonnes) of all the years is:

Ans

✓ 1. 6306

✗ 2. 6469

✗ 3. 6433

✗ 4. 6603

Q.13 If the lengths of two sides of an isosceles triangle are 6 cm and 12 cm, then find the length of the third side.

Ans

✗ 1. 8 cm

✗ 2. 6 cm

✓ 3. 12 cm

✗ 4. 14 cm

Q.14 The following table shows the number of pages printed by 3 printers (P, Q and R) for 3 days.

| Day       | P   | Q   | R   |
|-----------|-----|-----|-----|
| Monday    | 100 | 130 | 200 |
| Tuesday   | 120 | 145 | 160 |
| Wednesday | 180 | 85  | 120 |

What is the ratio of the total number of pages printed by printer P over the course of three days to the total number of pages printed by printer Q during the same three days?

- Ans
- ☐ 1. 9 : 10
  - ☐ 2. 11 : 10
  - ☐ 3. 10 : 11
  - ☒ 4. 10 : 9

Q.15 Nihira is 25 years old and Punith is 30 years old. How many years ago was the ratio of their ages 3 : 4?

- Ans
- ☐ 1. 20 years
  - ☐ 2. 15 years
  - ☐ 3. 5 years
  - ☒ 4. 10 years

Q.16 The circumference of the base of the cylindrical vessel is 154 cm and its height is 49 mm. How many litres of water can it hold? (correct to three places of decimals, use  $\pi = \frac{22}{7}$ )

- Ans
- ☒ 1. 9.244
  - ☐ 2. 2.439
  - ☐ 3. 3.924
  - ☐ 4. 4.329

Q.17 The centres of two circles are 36 cm apart. If the radii of these two circles are 15 cm and 9 cm, respectively, then what is the sum of the lengths (in cm) of a direct common tangent and a transverse common tangent of these two circles?

- Ans
- ☒ 1.  $6\sqrt{5}(\sqrt{7} + 2)$
  - ☐ 2.  $6\sqrt{7}(\sqrt{5} + 2)$
  - ☐ 3.  $6\sqrt{5}(\sqrt{5} + 2)$
  - ☐ 4.  $6\sqrt{7}(\sqrt{7} + 2)$

Q.18 Find the values of 'a' and 'b' for which the system of equations  $3x+y=3$  and  $(a-b)x+(a+b)y=3a+b-3$  has infinite solutions.

- Ans
- ☐ 1.  $a = 3, b = -\frac{2}{3}$
  - ☐ 2.  $a = -\frac{3}{2}, b = 2$
  - ☒ 3.  $a = 3, b = -\frac{3}{2}$
  - ☐ 4.  $a = 2, b = -\frac{3}{2}$

Q.19 Suppose P starts walking at a speed of 8 km/h. After 8 hours B started travelling on a bicycle at a speed of 24 km/h. The distance from the starting B can catch A is:

- Ans
- ☐ 1. 64 km
  - ☒ 2. 96 km
  - ☐ 3. 72 km
  - ☐ 4. 88 km

Q.20 Ramesh purchased 130 books at the rate of ₹200 each and sold half of them at the rate of ₹300 each, one-fifth of them at the rate of ₹350 each and the rest at the cost price. Find his profit percentage.

- Ans
- ☐ 1. 35%
  - ☒ 2. 40%
  - ☐ 3. 38%
  - ☐ 4. 44%

Q.21 Find the value of  $(\operatorname{cosec} \theta - \sin \theta)(\sec \theta - \cos \theta)(\tan \theta + \cot \theta)$ .

- Ans
- ☐ 1. 0
  - ☐ 2.  $\frac{1}{2}$
  - ☒ 3. 1
  - ☐ 4. -1

Q.22 If  $m + 5 = \sec^2 A \operatorname{cosec}^2 A (1 - \cos^2 A)(1 - \sin^2 A) + 5$ , then find the value of m:

- Ans
- ☐ 1. 10
  - ☐ 2. 0
  - ☒ 3. 1
  - ☐ 4. 5

Q.23 The side BC of  $\triangle ABC$  is produced to a point D. If  $AC = BC$  and  $\angle BAC = 70^\circ$ , then find the value of  $\angle ACD - \angle ABC$ .

- Ans
- ☒ 1.  $70^\circ$
  - ☐ 2.  $60^\circ$
  - ☐ 3.  $75^\circ$
  - ☐ 4.  $45^\circ$

Q.24 Study the given table and answer the question.  
The table displays the number of cars produced (in lakhs) by six different brands between 2018 and 2023.

| Type | 2018 | 2019 | 2000 | 2021 | 2022 | 2023 |
|------|------|------|------|------|------|------|
| A    | 36   | 40   | 42   | 45   | 47   | 42   |
| B    | 23   | 37   | 28   | 32   | 34   | 26   |
| C    | 45   | 47   | 51   | 54   | 56   | 48   |
| D    | 35   | 37   | 42   | 32   | 36   | 28   |
| E    | 57   | 56   | 52   | 38   | 48   | 42   |
| F    | 43   | 45   | 56   | 41   | 52   | 40   |

Find the difference in the average production of B and D during 2018-2023.

- Ans
- ☐ 1. 6 lakhs
  - ☐ 2. 4 lakhs
  - ☒ 3. 5 lakhs
  - ☐ 4. 5.5 lakhs

Q.25

ions is the largest?

Ans

 1.  $\frac{29}{79}$

 2.  $\frac{7}{53}$

 3.  $\frac{3}{7}$

 4.  $\frac{41}{80}$

Section : English Comprehension

**Q.1** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.  
My dog / barks / very louder / at night.

Ans

 1. My dog

 2. very louder

 3. barks

 4. at night

**Q.2** Select the option that expresses the given sentence in active voice.  
A comic play was performed by the comedian.

Ans

 1. The comedian performs a comic play.

 2. The comedian performed a comic play.

 3. The comedian performance a comic play.

 4. The comedian do perform a comic play.

**Q.3** Select the most appropriate ANTONYM of the underlined word to fill in the blank.  
Ram failed initially but after a few years, he \_\_\_\_\_ in every field.

Ans

 1. elevated

 2. succeeded

 3. enjoyed

 4. reserved

**Q.4** Select the most appropriate option to fill in the blank.  
Raj is very interested in studying human psychology, so he decided to pursue his master's degree in \_\_\_\_\_.

Ans

 1. Archaeology

 2. Philosophy

 3. Psychology

 4. Anatomy

**Q.5** Select the correctly spelt word.

Ans

 1. Exhilaration

 2. Exilaration

 3. Exhillaration

 4. Exhileration

**Q.6** Select the most appropriate option that can substitute the underlined part in the following sentence.  
The entire speech of the revivalist fell flat with the crowd that was present there.

- Ans**
- ☐ 1. had a great impact on
  - ☒ 2. had moderate influence on
  - ☒ 3. had somewhat of a result on
  - ☒ 4. had no effect on

**Q.7** Select the option that can be used as a one-word substitute for the given group of words.  
A performer's first public appearance

- Ans**
- ☒ 1. Foundation
  - ☒ 2. Debut
  - ☒ 3. Premise
  - ☒ 4. Dawn

**Q.8** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.  
(A) and was searching for them  
(B) the grandmother couldn't find  
(C) all around the house  
(D) placed them on her head  
(E) her spectacles because she had

- Ans**
- ☒ 1. BADEC
  - ☒ 2. BEDAC
  - ☒ 3. CABED
  - ☒ 4. ADBEC

**Q.9** Select the option that can be used as a one-word substitute for the given group of words.  
To go through an area making a lot of noise and causing damage

- Ans**
- ☒ 1. Brutality
  - ☒ 2. Cacophony
  - ☒ 3. Violence
  - ☒ 4. Rampage

**Q.10** Select the option that can substitute/replace the bracketed word correctly and complete the sentence.

If he runs, he (get) there in time.

- Ans**
- ☒ 1. will get
  - ☒ 2. is getting
  - ☒ 3. got there in time
  - ☒ 4. has to get

**Q.11** Select the most appropriate ANTONYM of the given word.

Laudable

- Ans**
- ☒ 1. Commendable
  - ☒ 2. Severe
  - ☒ 3. Deplorable
  - ☒ 4. Humorous

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

- Ans**
- ☒ 1. Vanish
  - ☒ 2. Fade
  - ☒ 3. Solve
  - ☒ 4. Appear

**Q.13** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

P) achieve success

Q) when you

R) and polite

S) stay humble

- Ans**
- ☒ 1. PRQS
  - ☒ 2. SRQP
  - ☒ 3. RQPS
  - ☒ 4. PQRS

**Q.14** The following sentence contains a word with a spelling error. Rectify the sentence by selecting the correct spelling of the identified word from the given options.

Later on, he was truely apologetic for his misconduct in the meeting.

- Ans**
- ☒ 1. Trooly
  - ☒ 2. Truily
  - ☒ 3. Truly
  - ☒ 4. Treuly

**Q.15** Select the most appropriate synonym of the underlined word.  
Our university is affiliated with various institutes all over the world.

- Ans**
- ☒ 1. disparate
  - ☒ 2. diverse
  - ☒ 3. unlike
  - ☒ 4. allied

**Q.16** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The company specialises at / designing, crafting and manufacturing / exquisite, high-quality furniture / of exceptional craftsmanship.

- Ans**
- ☒ 1. exquisite, high-quality furniture
  - ☒ 2. designing, crafting and manufacturing
  - ☒ 3. The company specialises at
  - ☒ 4. of exceptional craftsmanship

**Q.17** Select the most appropriate synonym of the underlined word.  
We went to a legitimate Mexican restaurant for my birthday, where they served cuisine like you would find in Mexico.

- Ans**
- ☒ 1. genuine
  - ☒ 2. fictitious
  - ☒ 3. falsified
  - ☒ 4. productive

**Q.18** Select the most appropriate synonym of the given word.

Derogatory

- Ans**
- ☒ 1. Insulting
  - ☒ 2. Derivative
  - ☒ 3. Delegation
  - ☒ 4. Salutory

**Q.19** Select the option that expresses the given sentence in passive voice.

The research team is conducting experiments on a new drug that could revolutionise the treatment of the disease.

- Ans**
- ☐ 1. Experiments have been conducted on a new drug that could have revolutionised the treatment of the disease through the research team.
  - ☐ 2. Experiments were being conducted on a new drug that could revolutionise the treatment of the disease by the research team.
  - ☐ 3. Experiments are conducted on a new drug that could revolutionise the treatment of the disease from the research team.
  - ☒ 4. Experiments are being conducted on a new drug that could revolutionise the treatment of the disease by the research team.

**Q.20** Select the most appropriate idiom that can substitute the underlined segment in the given sentence.

Leela was in class when the big fight happened. So, if you want to know the details, You should ask her, you will get the truth given by somebody who is directly involved and therefore likely to be accurate.

- Ans**
- ☐ 1. with kid gloves
  - ☐ 2. shooting off the cuff
  - ☐ 3. calling a spade a spade
  - ☒ 4. straight from the horse's mouth

**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 Kuno Palpur National Park, located in Madhya Pradesh's Chambal (1)\_\_\_\_\_, has an area of 750 square kilometres. It now has leopards, jackals, spotted deer, sambhar, neelgai, chinkara, wild boar, and four-horned antelope, making it a perfect (2)\_\_\_\_\_ base for felids. Despite strong objections from Gujarat, which (3)\_\_\_\_\_ that lions were part of the state's heritage, that MP had a poor (4)\_\_\_\_\_ in wildlife management, and that Kuno Palpur had other big cat species that would (5)\_\_\_\_\_ lion relocation, the sanctuary was chosen for the lion reintroduction project in 2013.

**SubQuestion No : 21**

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

- Ans**
- ☐ 1. reason
  - ☒ 2. region
  - ☐ 3. reign
  - ☐ 4. river

**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 Kuno Palpur National Park, located in Madhya Pradesh's Chambal (1)\_\_\_\_\_, has an area of 750 square kilometres. It now has leopards, jackals, spotted deer, sambhar, neelgai, chinkara, wild boar, and four-horned antelope, making it a perfect (2)\_\_\_\_\_ base for felids. Despite strong objections from Gujarat, which (3)\_\_\_\_\_ that lions were part of the state's heritage, that MP had a poor (4)\_\_\_\_\_ in wildlife management, and that Kuno Palpur had other big cat species that would (5)\_\_\_\_\_ lion relocation, the sanctuary was chosen for the lion reintroduction project in 2013.

**SubQuestion No : 22**

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

- Ans**
- ☐ 1. guard
  - ☐ 2. fun
  - ☐ 3. aid
  - ☒ 4. prey

**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 Kuno Palpur National Park, located in Madhya Pradesh's Chambal (1)\_\_\_\_\_, has an area of 750 square kilometres. It now has leopards, jackals, spotted deer, sambhar, neelgai, chinkara, wild boar, and four-horned antelope, making it a perfect (2)\_\_\_\_\_ base for felids. Despite strong objections from Gujarat, which (3)\_\_\_\_\_ that lions were part of the state's heritage, that MP had a poor (4)\_\_\_\_\_ in wildlife management, and that Kuno Palpur had other big cat species that would (5)\_\_\_\_\_ lion relocation, the sanctuary was chosen for the lion reintroduction project in 2013.

**SubQuestion No : 23**

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

- Ans**
- ☒ 1. restricted
  - ☒ 2. accused
  - ☒ 3. claimed
  - ☒ 4. adjourned

**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 Kuno Palpur National Park, located in Madhya Pradesh's Chambal (1)\_\_\_\_\_, has an area of 750 square kilometres. It now has leopards, jackals, spotted deer, sambhar, neelgai, chinkara, wild boar, and four-horned antelope, making it a perfect (2)\_\_\_\_\_ base for felids. Despite strong objections from Gujarat, which (3)\_\_\_\_\_ that lions were part of the state's heritage, that MP had a poor (4)\_\_\_\_\_ in wildlife management, and that Kuno Palpur had other big cat species that would (5)\_\_\_\_\_ lion relocation, the sanctuary was chosen for the lion reintroduction project in 2013.

**SubQuestion No : 24**

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

- Ans**
- ☒ 1. summary
  - ☒ 2. gaze
  - ☒ 3. record
  - ☒ 4. loss

**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 Kuno Palpur National Park, located in Madhya Pradesh's Chambal (1)\_\_\_\_\_, has an area of 750 square kilometres. It now has leopards, jackals, spotted deer, sambhar, neelgai, chinkara, wild boar, and four-horned antelope, making it a perfect (2)\_\_\_\_\_ base for felids. Despite strong objections from Gujarat, which (3)\_\_\_\_\_ that lions were part of the state's heritage, that MP had a poor (4)\_\_\_\_\_ in wildlife management, and that Kuno Palpur had other big cat species that would (5)\_\_\_\_\_ lion relocation, the sanctuary was chosen for the lion reintroduction project in 2013.

**SubQuestion No : 25**

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

- Ans**
- ☒ 1. Innocuous
  - ☒ 2. Jeopardise
  - ☒ 3. channelise
  - ☒ 4. safeguard