

**Combined Higher Secondary Level Examination 2023 Tier I**

Roll Number	
Candidate Name	
Venue Name	
Exam Date	09/08/2023
Exam Time	5:15 PM - 6:15 PM
Subject	CHSL Exam 2023 Tier I

Section : English Language

**Q.1** Select the most appropriate option that can substitute the underlined segment in the given sentence.

Sheela tried for argue with him though she knew that it was of no use.

- Ans  1. to argue with him  
 2. of argue with him  
 3. in argue with him  
 4. on argue with him

Question ID : 264330143966  
 Status : Answered  
 Chosen Option : 1

**Q.2** Select the most appropriate idiom for the given situation.

Don't annoy or irritate Raghav, otherwise he will oppose our proposal in the meeting.

- Ans  1. Pass the buck  
 2. Pour oil on troubled water  
 3. Rub in the wrong way  
 4. Loose the ground

Question ID : 264330144122  
 Status : Answered  
 Chosen Option : 2

**Q.3** Select the ANTONYM of the word **repel** to fill in the blank.  
 Her bright blue eyes \_\_\_\_\_ everyone in the party.

- Ans  1. disgust  
 2. vacillate  
 3. attract  
 4. amenable

Question ID : 264330149856  
 Status : Answered  
 Chosen Option : 2

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**Q.4** Select the most appropriate ANTONYM of the given word.  
Ludicrous

- Ans
- 1. Ridiculous
  - 2. Insane
  - 3. Wise
  - 4. Pathetic

Question ID : 264330143219  
Status : Not Answered  
Chosen Option : --

**Q.5** Select the most appropriate option that expresses the given sentence in active voice.  
The car was manufactured by the company in a factory overseas.

- Ans
- 1. The factory overseas was used by the company to manufacture the car.
  - 2. The company manufactured the car in a factory overseas.
  - 3. The car was being manufactured by the company in a factory overseas.
  - 4. The car was manufactured in a factory overseas by the company.

Question ID : 264330144191  
Status : Answered  
Chosen Option : 3

**Q.6** Select the most appropriate idiom for the given statement.

Doing things in a hurry does not give fruitful results.

- Ans
- 1. Nothing succeeds like success.
  - 2. Still waters run deep.
  - 3. Haste is waste.
  - 4. Wisdom is too high for a fool.

Question ID : 264330142661  
Status : Answered  
Chosen Option : 2

**Q.7** Select the option that expresses the given sentence in passive voice.  
The garment business has made Archie rich.

- Ans
- 1. Archie has been made rich by the garment business.
  - 2. Archie have been made rich by the garment business.
  - 3. Archie had been made rich by the garment business.
  - 4. Archie is made rich by the garment business.

Question ID : 264330149478  
Status : Answered  
Chosen Option : 1

**Q.8** Select the most appropriate ANTONYM of the word given in brackets to fill in the blank.  
The \_\_\_\_\_ (chill) of the sun on his face was a welcome respite from the chilly morning air.

- Ans
- 1. glow
  - 2. blush
  - 3. warmth
  - 4. brightness

Question ID : 264330147541  
Status : Answered  
Chosen Option : 3

**Q.9** Select the INCORRECTLY spelt word.

- Ans
- 1. Infer
  - 2. Neutral
  - 3. Apprehensive
  - 4. Maintenance

Question ID : 264330148941  
Status : Answered  
Chosen Option : 4

**Q.10** Parts of the following sentence have been given as options. One of them may contain an error. Select the option that contains the error. If you don't find any error, mark 'No error' as your answer.

By virtue off the power given to the leader, the followers accepted his decision.

- Ans
- 1. No error
  - 2. By virtue off
  - 3. the power given to the leader
  - 4. the followers accepted his decision

Question ID : 264330143036  
Status : Answered  
Chosen Option : 2

**Q.11** Select the most appropriate synonym of the underlined word.

Education gives people the knowledge and skills they need to stay healthy, get jobs and foster tolerance.

- Ans
- 1. entrench
  - 2. distrust
  - 3. lethargy
  - 4. endurance

Question ID : 264330143651  
Status : Answered  
Chosen Option : 4

**Q.12** Select the most appropriate ANTONYM of the underlined word.  
The doctor reassured Raman that the lump was benign, which brought immense relief to both him and his family.

- Ans
- 1. Harsh
  - 2. Rugged
  - 3. Malignant
  - 4. Healthy

Question ID : 264330147547  
Status : Answered  
Chosen Option : 4

**Q.13** Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.  
A. disrupted, posing major threats to progress  
B. global health systems have been  
C. health services have been  
D. overwhelmed and many essential  
E. in fighting other deadly diseases

- Ans
- 1. BECDA
  - 2. EADCB
  - 3. BDCAE
  - 4. DEABC

Question ID : 264330149496  
Status : Answered  
Chosen Option : 3

**Q.14** Select the most appropriate option that can substitute the underlined segment in the following sentence.

As the orchestra began to play, the audience was transported to another world, enthralled by the psychological effects of the music and the skill of the musicians, who performed each note with precision and passion.

- Ans
- 1. influenced by the overall scenario
  - 2. impacted by feelings
  - 3. swept away by the emotive power
  - 4. taken in by the effect on emotions

Question ID : 264330149590  
Status : Answered  
Chosen Option : 2

**Q.15** Select the option that can be used as a one-word substitute for the given group of words.  
A person who is against the use of violence and war to settle disputes

- Ans
- 1. Fatalist
  - 2. Hedonist
  - 3. Pacifist
  - 4. Misogynist

Question ID : 264330143935  
Status : Answered  
Chosen Option : 4

Q.16 Identify the correct spelling of the underlined word.

Alcohol causes intocsication.

- Ans  1. intoxication  
 2. intaxicasion  
 3. entoxkation  
 4. intakcication

Question ID : 264330143198  
Status : Answered  
Chosen Option : 1

Q.17 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

P. so they design the advertisement of products in such a way  
Q. the main target consumers of food companies  
R. that consumers are stimulated to buy them repeatedly  
S. are children and youth of the country

- Ans  1. QRSP  
 2. RPQS  
 3. PRQS  
 4. QSPR

Question ID : 264330151313  
Status : Answered  
Chosen Option : 4

Q.18 Parts of the following sentence have been given as options. Select the option that contains an error.

The team of scientists were conducting experiments to test their hypothesis.

- Ans  1. experiments to test  
 2. The team of scientists  
 3. their hypothesis  
 4. were conducting

Question ID : 264330142559  
Status : Answered  
Chosen Option : 2

Q.19 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

P. due to the lofty hilly terrain, curves and cliffs  
Q. the route to Badrinath  
R. is one of the most arduous one  
S. amidst the most scenically beautiful place on the earth

- Ans  1. QRPS  
 2. QSPR  
 3. PRSQ  
 4. PQRS

Question ID : 264330149704  
Status : Answered  
Chosen Option : 1

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

Fixation

- Ans  1. Formulation  
 2. Indifference  
 3. Inclination  
 4. Reformation

Question ID : 264330144357  
Status : Answered  
Chosen Option : 3

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 solar system is made up of the sun, planets, moons, asteroids, and comets that 1. \_\_\_\_\_ around it. Its mysteries and wonders have captured the imagination of people from all walks of life, and it continues to be an area of active research and exploration. The sun is at the centre of the solar system and is the largest object in it. The eight planets in the solar system, 2. \_\_\_\_\_ Earth, orbit around the sun in nearly circular paths. While the sun is at the centre of the solar system and dominates its gravitational pull, each planet has its own unique set of characteristics that makes it a fascinating object to study. Each planet in the solar system has unique characteristics and features. 3. \_\_\_\_\_ planets, such as Mercury and Venus, are small and rocky, while others, like Jupiter and Saturn, are much larger and made up mostly of gas. The outer planets, Uranus and Neptune, are 4. \_\_\_\_\_ as 'ice giants' because they contain more water, ammonia, and methane than the gas giants. In addition to the planets, the solar system also has numerous moons, asteroids, and comets. These objects provide important 5. \_\_\_\_\_ about the formation and evolution of the solar system.

SubQuestion No : 21

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

- Ans  1. form  
 2. orbit  
 3. stick  
 4. fly

Question ID : 264330144193  
Status : Answered  
Chosen Option : 2

**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 solar system is made up of the sun, planets, moons, asteroids, and comets that 1. \_\_\_\_\_ around it. Its mysteries and wonders have captured the imagination of people from all walks of life, and it continues to be an area of active research and exploration. The sun is at the centre of the solar system and is the largest object in it. The eight planets in the solar system, 2. \_\_\_\_\_ Earth, orbit around the sun in nearly circular paths. While the sun is at the centre of the solar system and dominates its gravitational pull, each planet has its own unique set of characteristics that makes it a fascinating object to study. Each planet in the solar system has unique characteristics and features. 3. \_\_\_\_\_ planets, such as Mercury and Venus, are small and rocky, while others, like Jupiter and Saturn, are much larger and made up mostly of gas. The outer planets, Uranus and Neptune, are 4. \_\_\_\_\_ as 'ice giants' because they contain more water, ammonia, and methane than the gas giants. In addition to the planets, the solar system also has numerous moons, asteroids, and comets. These objects provide important 5. \_\_\_\_\_ about the formation and evolution of the solar system.

**SubQuestion No : 22**

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

- Ans  1. excluding  
 2. diluting  
 3. dissolving  
 4. including

Question ID : 264330144194  
Status : Answered  
Chosen Option : 4

**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 solar system is made up of the sun, planets, moons, asteroids, and comets that 1. \_\_\_\_\_ around it. Its mysteries and wonders have captured the imagination of people from all walks of life, and it continues to be an area of active research and exploration. The sun is at the centre of the solar system and is the largest object in it. The eight planets in the solar system, 2. \_\_\_\_\_ Earth, orbit around the sun in nearly circular paths. While the sun is at the centre of the solar system and dominates its gravitational pull, each planet has its own unique set of characteristics that makes it a fascinating object to study. Each planet in the solar system has unique characteristics and features. 3. \_\_\_\_\_ planets, such as Mercury and Venus, are small and rocky, while others, like Jupiter and Saturn, are much larger and made up mostly of gas. The outer planets, Uranus and Neptune, are 4. \_\_\_\_\_ as 'ice giants' because they contain more water, ammonia, and methane than the gas giants. In addition to the planets, the solar system also has numerous moons, asteroids, and comets. These objects provide important 5. \_\_\_\_\_ about the formation and evolution of the solar system.

**SubQuestion No : 23**

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

- Ans  1. Few  
 2. Some  
 3. Many  
 4. A lot

Question ID : 264330144195  
Status : Answered  
Chosen Option : 2

**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 solar system is made up of the sun, planets, moons, asteroids, and comets that 1. \_\_\_\_\_ around it. Its mysteries and wonders have captured the imagination of people from all walks of life, and it continues to be an area of active research and exploration. The sun is at the centre of the solar system and is the largest object in it. The eight planets in the solar system, 2. \_\_\_\_\_ Earth, orbit around the sun in nearly circular paths. While the sun is at the centre of the solar system and dominates its gravitational pull, each planet has its own unique set of characteristics that makes it a fascinating object to study. Each planet in the solar system has unique characteristics and features. 3. \_\_\_\_\_ planets, such as Mercury and Venus, are small and rocky, while others, like Jupiter and Saturn, are much larger and made up mostly of gas. The outer planets, Uranus and Neptune, are 4. \_\_\_\_\_ as 'ice giants' because they contain more water, ammonia, and methane than the gas giants. In addition to the planets, the solar system also has numerous moons, asteroids, and comets. These objects provide important 5. \_\_\_\_\_ about the formation and evolution of the solar system.

**SubQuestion No : 24**

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

- Ans  1. classified  
 2. magnified  
 3. restricted  
 4. indulged

Question ID : 264330144196  
Status : Answered  
Chosen Option : 1

**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 solar system is made up of the sun, planets, moons, asteroids, and comets that 1. \_\_\_\_\_ around it. Its mysteries and wonders have captured the imagination of people from all walks of life, and it continues to be an area of active research and exploration. The sun is at the centre of the solar system and is the largest object in it. The eight planets in the solar system, 2. \_\_\_\_\_ Earth, orbit around the sun in nearly circular paths. While the sun is at the centre of the solar system and dominates its gravitational pull, each planet has its own unique set of characteristics that makes it a fascinating object to study. Each planet in the solar system has unique characteristics and features. 3. \_\_\_\_\_ planets, such as Mercury and Venus, are small and rocky, while others, like Jupiter and Saturn, are much larger and made up mostly of gas. The outer planets, Uranus and Neptune, are 4. \_\_\_\_\_ as 'ice giants' because they contain more water, ammonia, and methane than the gas giants. In addition to the planets, the solar system also has numerous moons, asteroids, and comets. These objects provide important 5. \_\_\_\_\_ about the formation and evolution of the solar system.

**SubQuestion No : 25**

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

- Ans  1. sets  
 2. derivations  
 3. clues  
 4. biases

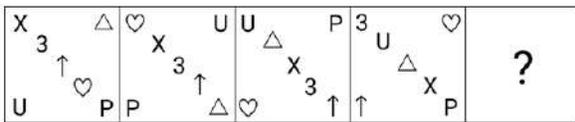
Question ID : 264330144197  
Status : Answered  
Chosen Option : 3

**Q.1** Each of the letters in the word DONATE are arranged in alphabetical order: How many letters are there in the English alphabetical series between the letter which is third from the left and the one which is second from the right?

- Ans**
- 1. Seven
  - 2. Eight
  - 3. Six
  - 4. Nine

Question ID : 264330147171  
 Status : Answered  
 Chosen Option : 4

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



**Ans**

- 1.
- 2.
- 3.
- 4.

Question ID : 264330151186  
 Status : Answered  
 Chosen Option : 1

**Q.3** In a certain code language,

- G + T means 'G is the father of T',
- G - T means 'G is the sister of T',
- G × T means 'G is the brother of T',
- G ÷ T means 'G is the daughter of T'.

Based on the above, If  $P + Q - L + N \times M$ , then how is N related to Q?

- Ans**
- 1. Son
  - 2. Brother
  - 3. Father
  - 4. Brother's son

Question ID : 264330147423  
Status : Answered  
Chosen Option : 4

**Q.4** Which term from among the given options can replace the question mark (?) in the following series to make it logically complete?

AN 37, ?, EH 50, GE 58, IB 67

- Ans**
- 1. DL 42
  - 2. DI 45
  - 3. CK 43
  - 4. CL 44

Question ID : 264330146978  
Status : Answered  
Chosen Option : 3

**Q.5** Which of the following interchanges in two mathematical operators will balance the equation given below?  
 $85 - 28 \times 3 + 114 \div 6 = 150$

- Ans**
- 1. + and ×
  - 2. - and ÷
  - 3. ÷ and ×
  - 4. + and -

Question ID : 264330150919  
Status : Answered  
Chosen Option : 4

**Q.6** Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the one that is different.

(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.)

9 : 720

5 : 134

7 : 334

11 : 1322

- Ans**
- 1. 7 : 334
  - 2. 5 : 134
  - 3. 9 : 720
  - 4. 11 : 1322

Question ID : 264330147028  
Status : Answered  
Chosen Option : 2

**Q.7** EFHD is related to LMOK in a certain way based on the English alphabetical order. In the same way, OPRN is related to VWYU. To which of the following is JKMI related, following the same logic?

- Ans**
- 1. QSPT
  - 2. TUWS
  - 3. QRTP
  - 4. RSTP

Question ID : 264330146716  
Status : Answered  
Chosen Option : 3

**Q.8** If 13 December 1969 is Saturday, then what will be the day of the week on 9 July 1978?

- Ans**
- 1. Saturday
  - 2. Friday
  - 3. Sunday
  - 4. Monday

Question ID : 264330146564  
Status : Answered  
Chosen Option : 3

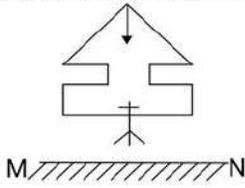
**Q.9** Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

AKRW, DNUZ, GQXC, ?

- Ans**
- 1. CZWR
  - 2. ISZE
  - 3. TJAA
  - 4. JTAF

Question ID : 264330147047  
 Status : Answered  
 Chosen Option : 4

**Q.10** Select the correct mirror image of the given figure when the mirror is placed at MN as shown.



**Ans**

- 1.
- 2.
- 3.
- 4.

Question ID : 264330146496  
 Status : Answered  
 Chosen Option : 3

**Q.11** If 'A' stands for '+', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation?

42 A 7 B 11 C 57 D 10 = ?

- Ans**
- 1. 109
  - 2. 113
  - 3. 118
  - 4. 111

Question ID : 264330146424  
Status : Answered  
Chosen Option : 2

**Q.12** In a certain code language, 'REPLACE' is coded as '67' and 'PETRIFY' is coded as '106'. How will 'CRACKED' be coded in that language?

- Ans**
- 1. 52
  - 2. 50
  - 3. 47
  - 4. 45

Question ID : 264330146345  
Status : Answered  
Chosen Option : 1

**Q.13** Which number will replace the question mark (?) to complete the given series?

15, 16, 20, 29, 45, ?

- Ans**
- 1. 70
  - 2. 65
  - 3. 75
  - 4. 60

Question ID : 264330150692  
Status : Answered  
Chosen Option : 1

**Q.14** In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. 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 / 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.)

(45, 80)

(37, 64)

- Ans**
- 1. (41, 73)
  - 2. (52, 114)
  - 3. (65, 120)
  - 4. (39, 69)

Question ID : 264330147002  
Status : Answered  
Chosen Option : 3

**Q.15** Which number from among the given options can replace the question mark (?) in the following series?

6, 12, ?, 32, 36, 72

- Ans**
- 1. 24
  - 2. 21
  - 3. 16
  - 4. 18

Question ID : 264330146994  
Status : Answered  
Chosen Option : 3

**Q.16** Three of the following number pairs are alike in some manner and one is different. Select the odd number pair.

(NOTE: The second number in the given number pairs is formed by performing a certain operation on the first number. The same operation is followed in all the number pairs except one. Find that odd number pair.)

- Ans**
- 1. 297 : 33
  - 2. 189 : 21
  - 3. 100 : 12
  - 4. 63 : 7

Question ID : 264330150872  
Status : Answered  
Chosen Option : 3

**Q.17** Select the term from among the given options that can replace the question mark (?) in the following series based on the English alphabetical order.  
BRG, DOI, FLK, HIM, ?

- Ans**
- 1. IEM
  - 2. JFO
  - 3. JGN
  - 4. IGN

Question ID : 264330147481  
Status : Answered  
Chosen Option : 2

**Q.18** 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:

All blue are dogs.  
No dog is silver.  
All pink are dogs.

Conclusions:

(I) Some pink are silver.  
(II) No blue is pink is a possibility.  
(III) Some blue are silver.

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

Question ID : 264330147465  
Status : Answered  
Chosen Option : 3

**Q.19** 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'  
A ÷ B means 'A is the father of B'  
Based on the above, how is S related to U if 'Q × R - S ÷ T + U'?

- Ans**
- 1. Daughter
  - 2. Brother's wife
  - 3. Mother's father
  - 4. Mother's husband

Question ID : 264330147217  
Status : Answered  
Chosen Option : 3

**Q.20** Based on the alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which of the following does NOT belong to that group?

- Ans**
- 1. PSR
  - 2. TUX
  - 3. MPO
  - 4. YBA

Question ID : 264330146966  
Status : Answered  
Chosen Option : 2

**Q.21** 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 whole numbers, without breaking down the numbers into their 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.)

(22, 44, 8)

(32, 48, 6)

- Ans**
- 1. (36, 64, 7)
  - 2. (42, 63, 6)
  - 3. (56, 128, 9)
  - 4. (48, 98, 8)

Question ID : 264330150849  
Status : Answered  
Chosen Option : 2

**Q.22** DGEC is related to KNLJ in a certain way based on the English alphabetical order. In the same way, NQOM is related to UXVI. To which of the following is ILJH related to, following the same logic?

- Ans**
- 1. ORPN
  - 2. PSQO
  - 3. QTRP
  - 4. PTRQ

Question ID : 264330147276  
Status : Answered  
Chosen Option : 2

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



- Ans**
- 1. 2 a q 3 v Ɔ
  - 2. 2 Ɔ q Ɔ v Ɔ
  - 3. 2 Ɔ p Ɔ v Ɔ
  - 4. 2 Ɔ p a 2

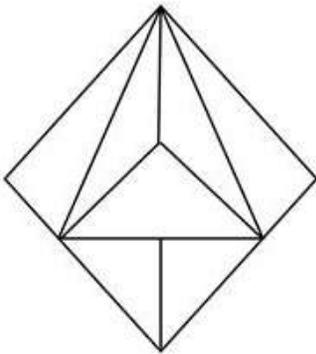
Question ID : 264330146674  
Status : Answered  
Chosen Option : 2

**Q.24** In a certain code language, 'LEASE' is coded as '14936' and 'PLEASE' is coded as '941360'. What is the code for 'P' in the given code language?

- Ans**
- 1. 4
  - 2. 9
  - 3. 1
  - 4. 0

Question ID : 264330147444  
 Status : Answered  
 Chosen Option : 4

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



- Ans**
- 1. 8
  - 2. 10
  - 3. 9
  - 4. 7

Question ID : 264330146913  
 Status : Answered  
 Chosen Option : 3

Section : Quantitative Aptitude

**Q.1** Which of the following expressions is equal to the expression  $\frac{x^2 - 3x + 2}{x^2 - 4}$  ?

- Ans**
- 1.  $\frac{x+1}{x-2}$
  - 2.  $\frac{x-1}{x+2}$
  - 3.  $\frac{x+1}{x+2}$
  - 4.  $\frac{x-1}{x-2}$

Question ID : 264330150625  
 Status : Answered  
 Chosen Option : 2

Q.2 What is the fourth proportional of  $3\sqrt{5}$ ,  $5\sqrt{8}$  and  $3\sqrt{10}$ ?

- Ans
- 1.  $10\sqrt{5}$
  - 2.  $40\sqrt{2}$
  - 3. 30
  - 4. 20

Question ID : 264330148007  
Status : Answered  
Chosen Option : 4

Q.3 If  $\tan \theta = \frac{8}{15}$ , then the value of  $\sqrt{\frac{1-\sin\theta}{1+\sin\theta}}$  is:

- Ans
- 1.  $\frac{1}{5}$
  - 2.  $\frac{3}{5}$
  - 3.  $\frac{2}{5}$
  - 4.  $\frac{4}{5}$

Question ID : 264330148804  
Status : Answered  
Chosen Option : 2

Q.4 Study the given table and answer the question that follows.

The table represents the mathematics marks of five students.

Name	Ajay	Pronoy	Mahendra	Jharna	Dipti
Marks	85	72	70	84	94

What is the average marks?

- Ans
- 1. 77
  - 2. 80
  - 3. 81
  - 4. 78

Question ID : 264330146458  
Status : Answered  
Chosen Option : 3

**Q.5** A man buys an article for ₹80 and marks it at ₹125. He then allows a discount of 40%. What is his percentage of loss or gain?

- Ans**
- 1. 12% gain
  - 2. 10% gain
  - 3. 6.25% loss
  - 4. 12% loss

Question ID : 264330148236  
Status : Answered  
Chosen Option : 3

**Q.6** Subhas, a 3.15 m tall tree, and an 11.25 m tall building are positioned such that their feet on the ground are collinear and the tree is located between Subhas and the building. The tree is located at a distance of 7.5 m from Subhas and at a distance of 45 m from the building. Further, the eyes of Subhas, the top of the tree, and the top of the building fall in one line. Find the height (in m) from the ground at which Subhas' eyes are situated.

- Ans**
- 1. 1.75
  - 2. 1.8
  - 3. 1.6
  - 4. 1.5

Question ID : 264330146817  
Status : Answered  
Chosen Option : 2

**Q.7** The lengths of two parallel chords of a circle are 10 cm and 24 cm lie on the opposite sides of the centre. If the smaller chord is 12 cm from the centre, what is the distance (in cm) between the two chords?

- Ans**
- 1. 13
  - 2. 5
  - 3. 17
  - 4. 12

Question ID : 264330147794  
Status : Answered  
Chosen Option : 3

**Q.8** If  $\theta$  is an acute angle and  $\cos\theta = \frac{39}{89}$ , what is the value of  $\sin\theta$ ?

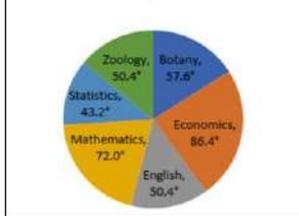
- Ans**
- 1.  $\frac{49}{89}$
  - 2.  $\frac{79}{89}$
  - 3.  $\frac{80}{89}$
  - 4.  $\frac{50}{89}$

Question ID : 264330146841  
Status : Answered  
Chosen Option : 3

**Q.9** Study the given pie chart and answer the question that follows.

The pie chart shows the distribution (in terms of central angles) of the number of professors in six different departments of a college.

Total number of professors = 600



The number of professors in Economics and Mathematics is approximately (correct up to two decimal places) what per cent more than the number of professors in English and Statistics?

- Ans**
- 1. 69.23%
  - 2. 59.09%
  - 3. 40.91%
  - 4. 70.91%

Question ID : 264330147910  
Status : Answered  
Chosen Option : 1

**Q.10** The marked price of a sunglass is ₹1,350. It is sold at ₹1,188 after allowing a certain discount. Find the rate of discount.

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

Question ID : 264330147853  
Status : Answered  
Chosen Option : 2

**Q.11** If  $a + \frac{1}{a} = 5$ , then determine the value of  $a^3 + \frac{1}{a^3}$ .

- Ans**
- 1. 90
  - 2. 125
  - 3. 105
  - 4. 110

Question ID : 264330148121  
Status : Answered  
Chosen Option : 4

Q.12 If  $\tan \theta, \tan 2\theta = 1$ , then the value of  $\cot 5\theta$  is:

- Ans
- 1.  $-1$
  - 2.  $1$
  - 3.  $-\sqrt{3}$
  - 4.  $\sqrt{3}$

Question ID : 264330149463  
Status : Answered  
Chosen Option : 3

Q.13 A man sells rice at 8% profit and uses weight 25% less than the actual measure. What is his percentage profit?

- Ans
- 1. 44%
  - 2. 41%
  - 3. 23%
  - 4. 36%

Question ID : 264330149335  
Status : Answered  
Chosen Option : 1

Q.14 The simple interest (in ₹, rounded off to the tens place) on ₹12,300 from 22 May 1993 to 2 August 1993 (both days are included) at the rate of 12% per annum is:

- Ans
- 1. 300
  - 2. 200
  - 3. 250
  - 4. 350

Question ID : 264330151963  
Status : Answered  
Chosen Option : 1

Q.15 Two points P and Q are 3 cm apart. These two points lie on the circumference of a circle having radius 1.7 cm. What is the distance (in cm) of the line segment PQ from the centre of the circle?

- Ans
- 1. 0.8
  - 2. 1.0
  - 3. 0.4
  - 4. 0.6

Question ID : 264330147913  
Status : Answered  
Chosen Option : 1

**Q.16** Two people A and B started running from the same point on a circular track of length 400 m in opposite directions with initial speeds of 10 m/s and 40 m/s, respectively. Whenever they meet, A's speed doubles and B's speed halves. After what time from the start will they meet for the third time?

- Ans**
- 1. 30 sec
  - 2. 24 sec
  - 3. 26 sec
  - 4. 28 sec

Question ID : 264330147868  
Status : Answered  
Chosen Option : 3

**Q.17** Two years ago, the population of the city was 5,00,000. If the annual birth rate and the annual death rate are 6% and 3%, respectively, what is the present population of the city?

- Ans**
- 1. 536440
  - 2. 580440
  - 3. 530450
  - 4. 540550

Question ID : 264330150752  
Status : Answered  
Chosen Option : 3

**Q.18** Find the value of the given expression.

$$\left(2\frac{1}{2} \div 1\frac{7}{8}\right) \div \left(9\frac{3}{8} \div 11\frac{2}{3} \text{ of } \frac{1}{8}\right)$$

- Ans**
- 1.  $\frac{33}{135}$
  - 2.  $\frac{11}{135}$
  - 3.  $\frac{28}{135}$
  - 4.  $\frac{57}{135}$

Question ID : 264330147817  
Status : Answered  
Chosen Option : 3

Q.19 Find the average of prime numbers lying between 69 and 92.

- Ans
- 1. 76
  - 2. 77
  - 3. 78
  - 4. 79

Question ID : 264330149434  
Status : Answered  
Chosen Option : 4

Q.20 In  $\triangle ABC$ , P and Q are the middle points of the sides AB and AC, respectively. R is point on the segment PQ such that PR : RQ = 1 : 3. If PR = 6 cm, then BC:

- Ans
- 1. 46 cm
  - 2. 48 cm
  - 3. 44 cm
  - 4. 50 cm

Question ID : 264330148208  
Status : Answered  
Chosen Option : 2

Q.21 The diameter of a sphere is 14 cm, then the volume of this sphere is (use  $\pi = 22/7$ ):

- Ans
- 1.  $1437\frac{1}{3} \text{ cm}^3$
  - 2.  $1683\frac{1}{3} \text{ cm}^3$
  - 3.  $1521\frac{2}{3} \text{ cm}^3$
  - 4.  $2125\frac{1}{3} \text{ cm}^3$

Question ID : 264330148011  
Status : Answered  
Chosen Option : 1

Q.22 If  $x = (7 + 3\sqrt{5})$ , then find the value of  $x^2 + \frac{1}{x^2}$ .

- Ans
- 1.  $\frac{580+315\sqrt{5}}{8}$
  - 2.  $\frac{799+328\sqrt{5}}{8}$
  - 3.  $\frac{799+315\sqrt{5}}{12}$
  - 4.  $\frac{799+315\sqrt{5}}{8}$

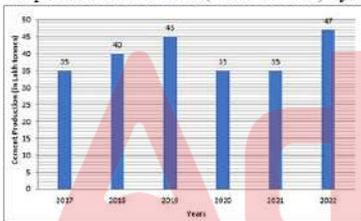
Question ID : 264330148073  
Status : Answered  
Chosen Option : 4

Q.23 A person spent 12% of his salary on groceries, 8% on medicines, 20% on children's school fee and he had a balance of ₹36,000. Find his salary.

- Ans
- 1. ₹56,000
  - 2. ₹54,000
  - 3. ₹60,000
  - 4. ₹66,000

Question ID : 264330148135  
Status : Answered  
Chosen Option : 3

Q.24 Study the given bar graph and answer the question that follows.  
The production of cement (in lakh tonnes) by a company during the last six years is presented by the bar graph.



What is the average cement production (in lakh tonnes) during the given six years?

- Ans
- 1. 40.0
  - 2. 39.0
  - 3. 39.5
  - 4. 40.5

Question ID : 264330150840  
Status : Answered  
Chosen Option : 3

**Q.25** Three people A, B and C worked together and finished a work in 9 days. If A alone can finish the same work in 18 days, B alone in 30 days, then the number of days C alone will take is:

- Ans**
- 1. 36 days
  - 2. 45 days
  - 3. 40 days
  - 4. 54 days

Question ID : 264330149772  
Status : Answered  
Chosen Option : 2

Section : **General Awareness**

**Q.1** In 1851, who founded the science of hydrodynamics with his law of viscosity describing the velocity of a small sphere through a viscous fluid?

- Ans**
- 1. Daniel Bernoulli
  - 2. George Gabriel Stokes
  - 3. Evangelista Torricelli
  - 4. Heinrich Gustav Magnus

Question ID : 264330145602  
Status : Answered  
Chosen Option : 1

**Q.2** The rate at which the Reserve Bank of India lends to other commercial banks for short term has been reduced. What is this rate called?

- Ans**
- 1. Cash Reserve Rate
  - 2. Reverse Repo Rate
  - 3. Bank Rate
  - 4. Repo Rate

Question ID : 264330145711  
Status : Answered  
Chosen Option : 4

**Q.3** What was the percentage of India's population that belonged to the Muslim religion in 2011?

- Ans**
- 1. 14.2%
  - 2. 11.9%
  - 3. 16.4%
  - 4. 18.5%

Question ID : 264330149372  
Status : Answered  
Chosen Option : 1

Q.4 Kerala is famous for which of the following festivals?

- Ans
- 1. Pongal
  - 2. Ugadi
  - 3. Bihu
  - 4. Onam

Question ID : 264330144764  
Status : Answered  
Chosen Option : 4

Q.5 Guru Gopinath National Award 2021 was honoured to whom among the following Kathak dancers?

- Ans
- 1. Durga Lal
  - 2. Roshan Kumari
  - 3. Kumudini Lakhia
  - 4. Shambhu Maharaj

Question ID : 264330148688  
Status : Not Answered  
Chosen Option : --

Q.6 Which of these statements is true?

- Ans
- 1.  
Under competitive asset market conditions, the price of a bond must always be equal to its present value in equilibrium.
  - 2.  
Under competitive asset market conditions, the price of a bond must be less than its present value to benefit the seller.
  - 3.  
Under competitive asset market conditions, the price of a bond must exceed its present value to benefit the buyer.
  - 4.  
Under competitive asset market conditions, the present value must exceed the price of a bond to benefit the seller.

Question ID : 264330144692  
Status : Answered  
Chosen Option : 4

Q.7 Which of these is NOT one of the negative effects of the green revolution?

- Ans
- 1.  
Primarily medium and large farmers were able to benefit from the new technology of the green revolution.
  - 2.  
The green revolution benefited farmers who had access to land, capital, technology and know-how.
  - 3.  
The green revolution led to the displacement of tenant cultivators in many cases.
  - 4.  
The green revolution caused increased migration from urban to rural areas.

Question ID : 264330144732  
Status : Answered  
Chosen Option : 4

Q.8 Which of the following is included in the M1 measure of money supply?

- A) Currency with Public
- B) Time Deposit with Post Office
- C) Demand Deposits with Commercial Banks/RBI of Public Financial Institutions

- Ans
- 1. Both B and C
  - 2. Both A and C
  - 3. Only B
  - 4. Only A

Question ID : 264330145715  
Status : Not Answered  
Chosen Option : --

Q.9 Indian Academy of Sciences, founded in 1934 by CV Raman, is situated in \_\_\_\_\_.

- Ans
- 1. Mumbai
  - 2. Hyderabad
  - 3. Bangalore
  - 4. New Delhi

Question ID : 264330150385  
Status : Not Answered  
Chosen Option : --

Q.10 Who amongst the following raised the banner of revolt against Nasiruddin Khusrau?

- Ans
- 1. Nasiruddin Tughlaq
  - 2. Muhammad bin Tughlaq
  - 3. Feroz Shah Tughlaq
  - 4. Ghiyasuddin Tughlaq

Question ID : 264330148561  
Status : Not Answered  
Chosen Option : --

Q.11 When milk is converted into curd, which type of change is it?

- Ans
- 1. Reversible change
  - 2. Physical change
  - 3. Isothermal change
  - 4. Chemical change

Question ID : 264330145843  
Status : Answered  
Chosen Option : 4

**Q.12** Which of the following persons' tenure was extended for one year as Chief of the Enforcement Directorate in November 2021 ?

- Ans**
- 1. Pradyumna Sinha
  - 2. Sanjay Kumar Mishra
  - 3. Prateek Rai
  - 4. Vijay Verma

Question ID : **264330145965**  
Status : **Not Answered**  
Chosen Option : --

**Q.13** Which of the following physical divisions of India is densely populated?

- Ans**
- 1. The North Indian Plains
  - 2. The islands
  - 3. The Himalayan Range
  - 4. The Thar Desert

Question ID : **264330149630**  
Status : **Answered**  
Chosen Option : 1

**Q.14** Which of the following is a liberal principle of the Directive Principles of State Policy of the Indian Constitution ?

- Ans**
- 1. To secure right to work
  - 2. To secure uniform civil code
  - 3. To promote social welfare
  - 4. To promote equal justice

Question ID : **264330146561**  
Status : **Answered**  
Chosen Option : 3

**Q.15** Gurucharan Singh received the Padma Shri from the Government of India in 2023 for his contributions to the sport of \_\_\_\_\_.

- Ans**
- 1. football
  - 2. basketball
  - 3. kabaddi
  - 4. cricket

Question ID : **264330145973**  
Status : **Not Answered**  
Chosen Option : --

Q.16 Which of the following is NOT a capital expenditure for the central government?

- Ans
- 1. Loan to state government
  - 2. Improvement of fixed assets
  - 3. Salaries and old-age pensions
  - 4. Construction of roads and bridges

Question ID : 264330145743  
Status : Answered  
Chosen Option : 2

Q.17 Which of the following is a yellowish green to green coloured gemstone often found in mafic and ultramafic igneous rocks such as basalt, gabbro, dunite, diabase and peridotite?

- Ans
- 1. Bornite
  - 2. Olivine
  - 3. Tremolite
  - 4. Garnet

Question ID : 264330145639  
Status : Not Answered  
Chosen Option : --

Q.18 Which of the following is a public sector industry?

- Ans
- 1. BHEL
  - 2. Dabur Industry
  - 3. Bajaj Auto
  - 4. TISCO

Question ID : 264330149627  
Status : Answered  
Chosen Option : 1

Q.19 Who was the author of the famous book 'The Economic History of India'?

- Ans
- 1. Dadabhai Naoroji
  - 2. PC Dutta
  - 3. RG Bhandarkar
  - 4. RC Dutt

Question ID : 264330150229  
Status : Not Answered  
Chosen Option : --

Q.20 Jagoi and Thabal Chongba are the famous dances of which Indian state?

- Ans
- 1. Uttar Pradesh
  - 2. Odisha
  - 3. Manipur
  - 4. Nagaland

Question ID : 264330148633  
Status : Not Answered  
Chosen Option : --

Q.21 In 2023, which Indian Tennis player became the oldest to win the ATP Masters 1000 title?

- Ans
- 1. Rohan Bopanna
  - 2. Mahesh Bhupathi
  - 3. Vijay Amritraj
  - 4. Ramanathan Krishnan

Question ID : 264330146301  
Status : Not Answered  
Chosen Option : --

Q.22 In 1830, which American scientist created the world's most powerful electromagnet, the Albany magnet, which could lift up to 750 pounds of metal at a time?

- Ans
- 1. John Cockcroft
  - 2. William Gilbert
  - 3. Joseph Henry
  - 4. Edward Purcell

Question ID : 264330150717  
Status : Not Answered  
Chosen Option : --

Q.23 Who was the first American male athlete to win the Marathon gold medal in the Olympic Games?

- Ans
- 1. Abebe Bikila
  - 2. Thomas Hicks
  - 3. Frank Shorter
  - 4. John Hayes

Question ID : 264330150178  
Status : Not Answered  
Chosen Option : --

Q.24 Which of the following Articles about fundamental duties is related to the respect of the National Anthem?

- Ans
- 1. Article 51A (b)
  - 2. Article 51A (c)
  - 3. Article 51A (a)
  - 4. Article 51A (d)

Question ID : 264330151227  
Status : Not Answered  
Chosen Option : --

Q.25 Begum Akhtar is associated with which of the following fields?

- Ans
- 1. Writing
  - 2. Politics
  - 3. Painting
  - 4. Ghazal

Question ID : 264330148684  
Status : Answered  
Chosen Option : 1