

## Combined Higher Secondary Level Examination 2024 Tier I

Exam Date	02/07/2024
Exam Time	2:30 PM - 3:30 PM
Subject	CHSL Exam 2024 Tier I

### Section : English Language

**Q.1** Select the option that corrects the following sentence.  
What are you looking around?

- Ans**
- ☐ 1. What are you looking among?
  - ☒ 2. What are you looking for?
  - ☐ 3. What are you looking across?
  - ☐ 4. What are you looking through?

**Q.2** The following sentence has been divided into four segments. Identify the segment that contains an error in the usage of indefinite articles.  
We took / an ice / and applied it on / the wound.

- Ans**
- ☒ 1. an ice
  - ☐ 2. We took
  - ☐ 3. and applied it on
  - ☐ 4. the wound.

**Q.3** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.  
Since the little girl answers / a few simple questions, / her parents say that / she is too intelligent.

- Ans**
- ☐ 1. Since the little girl answers
  - ☐ 2. her parents say that
  - ☒ 3. she is too intelligent
  - ☐ 4. a few simple questions

**Q.4** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

It is difficult to live in / the societal expectations / when one has / fewer resources.  
A B C D

- Ans**
- ☐ 1. B
  - ☒ 2. A
  - ☐ 3. D
  - ☐ 4. C

**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.

Cities are the great havens for knowledge, culture, and social life. Vibrant cultures are found in cities because it takes a 1. \_\_\_\_\_ population to support museums, concert halls, sports teams, and night-life districts. Cities also offer rich social opportunities. People in rural areas enjoy only limited social opportunities because 2. \_\_\_\_\_ the small local population. City dwellers can choose their friends and mates from among a large number of people of 3. \_\_\_\_\_ interests and inclinations. We are not likely to abandon the city as a 4. \_\_\_\_\_ institution, but we need to make sure that our transport arrangements do not 5. \_\_\_\_\_ the 'city's' other functions.

**SubQuestion No : 5**

**Q.5** Select the most appropriate option to fill in blank No. 1.

- Ans**
- ☒ 1. large
  - ☐ 2. small
  - ☐ 3. lazy
  - ☐ 4. dumb

**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.

Cities are the great havens for knowledge, culture, and social life. Vibrant cultures are found in cities because it takes a 1. \_\_\_\_\_ population to support museums, concert halls, sports teams, and night-life districts. Cities also offer rich social opportunities. People in rural areas enjoy only limited social opportunities because 2. \_\_\_\_\_ the small local population. City dwellers can choose their friends and mates from among a large number of people of 3. \_\_\_\_\_ interests and inclinations. We are not likely to abandon the city as a 4. \_\_\_\_\_ institution, but we need to make sure that our transport arrangements do not 5. \_\_\_\_\_ the 'city's' other functions.

**SubQuestion No : 6**

**Q.6** Select the most appropriate option to fill in blank No. 2.

- Ans**
- ☐ 1. off
  - ☐ 2. with
  - ☒ 3. of
  - ☐ 4. for

**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.

Cities are the great havens for knowledge, culture, and social life. Vibrant cultures are found in cities because it takes a 1. \_\_\_\_\_ population to support museums, concert halls, sports teams, and night-life districts. Cities also offer rich social opportunities. People in rural areas enjoy only limited social opportunities because 2. \_\_\_\_\_ the small local population. City dwellers can choose their friends and mates from among a large number of people of 3. \_\_\_\_\_ interests and inclinations. We are not likely to abandon the city as a 4. \_\_\_\_\_ institution, but we need to make sure that our transport arrangements do not 5. \_\_\_\_\_ the 'city's' other functions.

**SubQuestion No : 7**

**Q.7** Select the most appropriate option to fill in blank No. 3.

- Ans**
- ☐ 1. wasteful
  - ☐ 2. declining
  - ☒ 3. similar
  - ☐ 4. feigning

**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.

Cities are the great havens for knowledge, culture, and social life. Vibrant cultures are found in cities because it takes a 1. \_\_\_\_\_ population to support museums, concert halls, sports teams, and night-life districts. Cities also offer rich social opportunities. People in rural areas enjoy only limited social opportunities because 2. \_\_\_\_\_ the small local population. City dwellers can choose their friends and mates from among a large number of people of 3. \_\_\_\_\_ interests and inclinations. We are not likely to abandon the city as a 4. \_\_\_\_\_ institution, but we need to make sure that our transport arrangements do not 5. \_\_\_\_\_ the 'city's' other functions.

**SubQuestion No : 8**

**Q.8** Select the most appropriate option to fill in blank No. 4.

- Ans**
- ☒ 1. psychological
  - ☒ 2. educational
  - ☒ 3. cultural
  - ☒ 4. religious

**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.

Cities are the great havens for knowledge, culture, and social life. Vibrant cultures are found in cities because it takes a 1. \_\_\_\_\_ population to support museums, concert halls, sports teams, and night-life districts. Cities also offer rich social opportunities. People in rural areas enjoy only limited social opportunities because 2. \_\_\_\_\_ the small local population. City dwellers can choose their friends and mates from among a large number of people of 3. \_\_\_\_\_ interests and inclinations. We are not likely to abandon the city as a 4. \_\_\_\_\_ institution, but we need to make sure that our transport arrangements do not 5. \_\_\_\_\_ the 'city's' other functions.

**SubQuestion No : 9**

**Q.9** Select the most appropriate option to fill in blank No. 5.

- Ans**
- ☒ 1. boost
  - ☒ 2. help
  - ☒ 3. damage
  - ☒ 4. support

**Q.10** Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Then I unfurled the Indian tri-colour and keep it aloft at the roof of the world.

- Ans**
- ☒ 1. keeping
  - ☒ 2. held
  - ☒ 3. No substitution required
  - ☒ 4. hold

**Q.11** Select the most appropriate **ANTONYM** of the underlined word.  
She was known for her refined manners.

- Ans**
- ☒ 1. Crude
  - ☒ 2. Elegant
  - ☒ 3. Shrewd
  - ☒ 4. Brood

**Q.12** Select the most appropriate homonym to fill in the blank.

Ravi is \_\_\_\_\_.

- Ans**
- ☒ 1. bawled
  - ☒ 2. balled
  - ☒ 3. baled
  - ☒ 4. bald

**Q.13** Select the most appropriate idiom to fill in the blank.  
After a day long trek, we were so tired that we were ready to \_\_\_\_\_.

- Ans**
- ☐ 1. face the music
  - ☐ 2. get into deep water
  - ☐ 3. go from rags to riches
  - ☒ 4. hit the sack

**Q.14** Select the most appropriate synonym of the word 'intuitive' to fill in the blank.  
In a split second, her \_\_\_\_\_ reaction kicked in as she swiftly reached out to catch the falling glass.

- Ans**
- ☐ 1. shrewd
  - ☒ 2. instinctive
  - ☐ 3. voluntary
  - ☐ 4. insightful

**Q.15** Select the most appropriate synonym of the word 'Abandon' from the given sentence.

Ramita has decided to forsake her participation in college activities until she improved her scores.

- Ans**
- ☒ 1. forsake
  - ☐ 2. improved
  - ☐ 3. decided
  - ☐ 4. participation

**Q.16** Select the most appropriate idiom to fill in the blank.

The two brothers \_\_\_\_\_ when their father died.

- Ans**
- ☐ 1. fell down
  - ☒ 2. fell out
  - ☐ 3. got the sack
  - ☐ 4. look down upon

**Q.17** Select the most appropriate option that can substitute the underlined segment in the given sentence.

One of my best friends are here.

- Ans**
- ☐ 1. better friends are here
  - ☒ 2. best friends is here
  - ☐ 3. better friends is here
  - ☐ 4. best friend is here

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

We should not discriminate against people who are different from us.

- Ans**
- ☒ 1. differentiate
  - ☐ 2. divide
  - ☐ 3. part
  - ☐ 4. sever

**Q.19** Select the most appropriate option to fill in the blank.

The teacher asked the students to \_\_\_\_\_ electricity by switching off lights when they left the room.

- Ans**
- ☒ 1. save
  - ☐ 2. deposit
  - ☐ 3. rescue
  - ☐ 4. retain

**Q.20** Select the option that will improve the underlined part of the given sentence.

This book provides an unrestrained account of the natural resources in India.

- Ans**
- ☐ 1. exhausting
  - ☐ 2. limited
  - ☒ 3. exhaustive
  - ☐ 4. excessive

**Q.21** Select the most appropriate ANTONYM of the underlined word in the given sentence.  
The truth was revealed in the interrogation.

- Ans**
- ☐ 1. Evident
  - ☐ 2. Found
  - ☐ 3. Declared
  - ☒ 4. Concealed

**Q.22** Select the most appropriate ANTONYM of the underlined word.  
We should desecrate our national flag.

- Ans**
- ☐ 1. Integrate
  - ☒ 2. Sanctify
  - ☐ 3. Violate
  - ☐ 4. Damage

**Q.23** Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement'.  
The Privacy Shield establishes a process to allow companies to transfer consumer data from European Union countries to the United States in compliance in EU law.

- Ans**
- ☐ 1. No improvement
  - ☐ 2. in compliance for the
  - ☐ 3. in compliance under the
  - ☒ 4. in compliance with

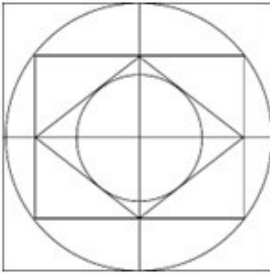
**Q.24** Identify the incorrectly spelt word and select its correct spelling.  
This will sound weired, but bear with me.

- Ans**
- ☐ 1. wired
  - ☐ 2. beer
  - ☒ 3. weird
  - ☐ 4. bier

**Q.25** Select the INCORRECTLY spelt word.

- Ans**
- ☒ 1. Betrey
  - ☐ 2. Destroy
  - ☐ 3. Develop
  - ☐ 4. Demolish

Q.1 How many semi circles are there in the given figure?



Ans ✓ 1. 8

✗ 2. 12

✗ 3. 10

✗ 4. 9

Q.2 'ETHICS' is related to 'AVDKYU' in a certain way based on the English alphabetical order. In the same way, 'CUSTOM' is related to 'YWOVKO'. To which of the following is 'PRINCIPLES' related, following the same logic?

Ans ✗ 1. LSEPYKLNAU

✓ 2. LTEPYKLNAU

✗ 3. LTFPYKLNAU

✗ 4. LTEPYKLMAU

Q.3 45 is related to 100 following a certain logic. Following the same logic, 65 is related to 140. To which of the following is 105 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying 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. 210

✗ 2. 215

✓ 3. 220

✗ 4. 230

Q.4 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?  
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.)

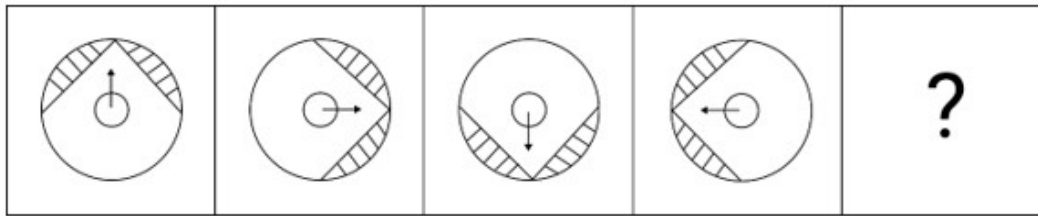
Ans ✗ 1. TBG

✗ 2. CKP

✗ 3. LTY

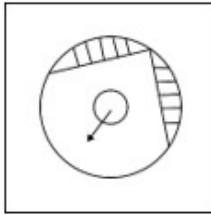
✓ 4. EMS

Q.5 Identify the figure in the options that when put in place of the question mark (?) will logically complete the series?

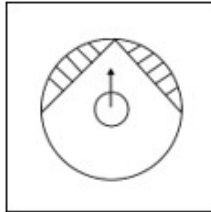


Ans

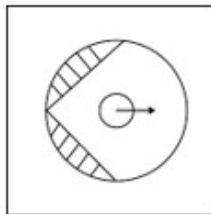
✗ 1.



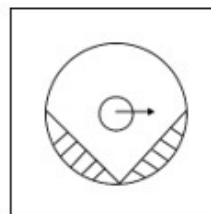
✓ 2.



✗ 3.



✗ 4.



Q.6 What should come in place of ? in the given series based on the English alphabetical order?

YQI CZQ GIY KRG ?

Ans

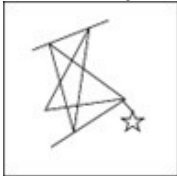
✗ 1. DMX

✗ 2. EOZ

✓ 3. OAO

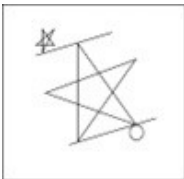
✗ 4. CNY

Q.7 Select the option in which the given figure is embedded (rotation is not allowed).

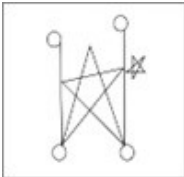


Ans

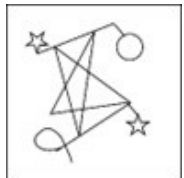
☒ 1.



☒ 2.



☒ 3.



☒ 4.



Q.8 Which two numbers should be interchanged to make the given equation correct?

$$8 \times (7 + 5 - 3) + (46 \div 23) \times 6 - 69 = 44$$

(NOTE: Numbers must be interchanged and not the constituent digits e.g. if 2 and 3 are to be interchanged in the equation  $43 \times 3 + 4 \div 2$ , then interchanged equation is  $43 \times 2 + 4 \div 3$ )

Ans ☒ 1. 6 and 7

☒ 2. 3 and 5

☒ 3. 46 and 69

☒ 4. 8 and 6

Q.9 The position of how many letters will remain unchanged, if each of the letters in the word DICTIONARY is arranged in alphabetical order?

Ans ☒ 1. 4

☒ 2. 1

☒ 3. 3

☒ 4. 2

Q.10 In a certain code language, 'tiffin is heavy' is written as 'ct qm lb' and 'heavy weight gain' is written as 'rx yb ct'. How is 'heavy' written in the given language?

Ans ☒ 1. ct

☒ 2. qm

☒ 3. lb

☒ 4. rx



**Q.11** Three statements are followed by conclusions numbered I, II. You have to consider these statements to be true, even if they seem to be at variance with commonly known facts. Decide which of the given conclusions logically follow/s from the given statement.

**Statements:**

Some bottles are pens.

All pens are tables.

All tables are glasses.

**Conclusion (I):** Some glasses are bottles.

**Conclusion (II):** Some pens are glasses.

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

**Q.12** 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 father of B',  
'A ÷ B' means 'A is the daughter of B'  
Based on the above, how is E related to A if 'A × B - C + D ÷ E'?

- Ans**
- ☐ 1. Brother
  - ☒ 2. Daughter's husband
  - ☐ 3. Son
  - ☐ 4. Wife's brother

**Q.13** What should come in place of the question mark (?) in the given series?

27, 32, 42, 47, 57, ?

- Ans**
- ☒ 1. 62
  - ☐ 2. 60
  - ☐ 3. 61
  - ☐ 4. 63

Q.14 Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).



(X)

Ans

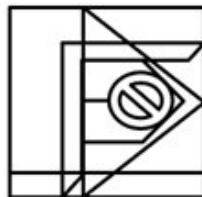
✗ 1.



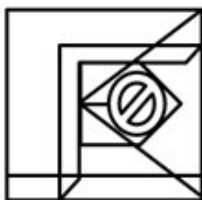
✗ 2.



✓ 3.



✗ 4.



Q.15 If 'A' stands for '+', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', then the resultant of which of the following will be 233?

Ans

✗ 1. 21 C 11 D 33 A 11 B 5

✗ 2. 21 A 11 D 33 B 11 C 5

✓ 3. 21 B 11 D 33 A 11 C 5

✗ 4. 21 B 11 A 33 D 11 C 5

Q.16 Which of the following numbers will replace the question mark (?) in the given series?

12, 26, 54, ?, 222, 446

Ans

✗ 1. 98

✗ 2. 94

✗ 3. 88

✓ 4. 110

Q.17 In a certain code language, 'INDULGE' is coded as '48' and 'PURGE' is coded as '24'. How will 'PUNY' be coded in that language?

Ans

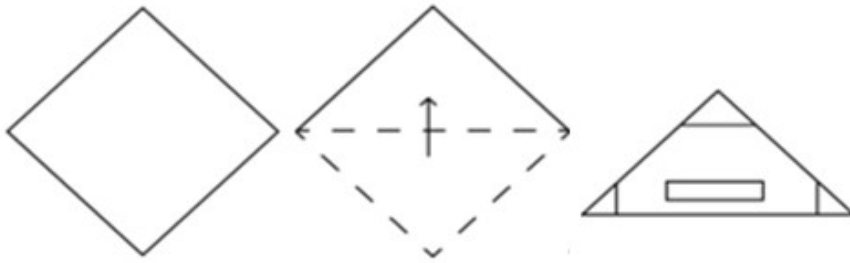
✗ 1. 25

✗ 2. 20

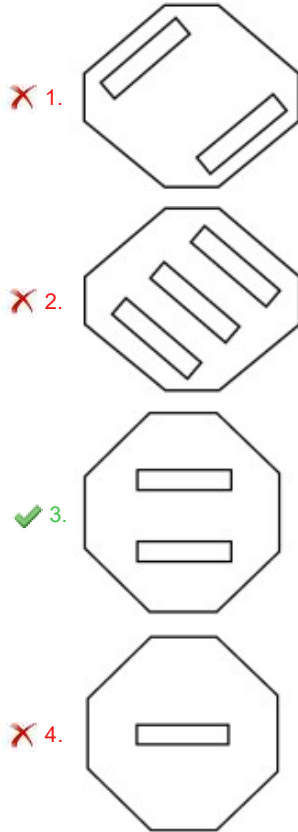
✗ 3. 18

✓ 4. 15

Q.18 The sequence of folding a piece of paper and the manner in which the folded paper is punched is shown in the following figures. How would this paper look when unfolded?



Ans



Q.19 If 24 August 1932 was a Wednesday, then what was the day of the week on 11 September 1943?

- Ans
- ☒ 1. Monday
  - ☒ 2. Saturday
  - ☒ 3. Wednesday
  - ☒ 4. Sunday

Q.20 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

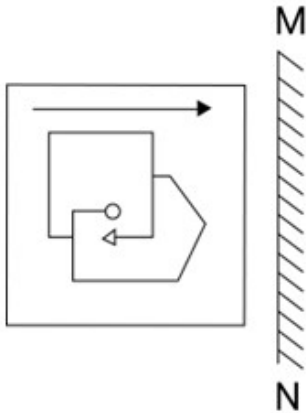


- Ans
- ☒ 1. K B V 2 Y X P C
  - ☒ 2. C P X Y 2 V B K
  - ☒ 3. K B A 2 Y X P C
  - ☒ 4. K B A 2 Y X P C

Q.21 LH3 is related to RN21 in a certain way. In the same way, JF5 is related to PL35. To which of the following is ZV6 related following the same logic?

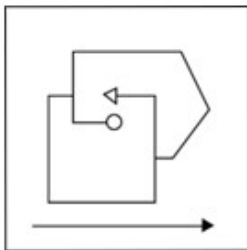
- Ans
- ☒ 1. FB45
  - ☒ 2. EA45
  - ☒ 3. FB42
  - ☒ 4. EA24

Q.22 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

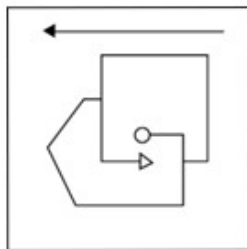


Ans

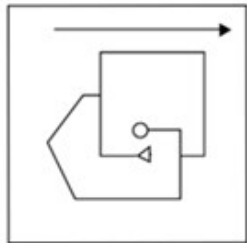
☒ 1.



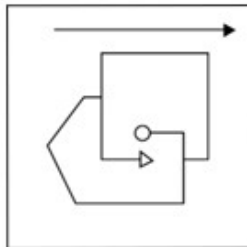
☒ 2.



☒ 3.



☒ 4.



**Q.23** What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?

$$90 \times 2 - 43 + 7 \div 7 = ?$$

- Ans**
- ✓ 1. 39
  - ✗ 2. 49
  - ✗ 3. 29
  - ✗ 4. 19

**Q.24** Which letter-cluster will replace the question mark (?) to complete the given series?  
NDGB, OFJF, ?, TMSQ, XRYX

- Ans**
- ✓ 1. QINK
  - ✗ 2. QJNK
  - ✗ 3. RHNK
  - ✗ 4. RINJ

**Q.25** Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(26, 38, 128)  
(42, 19, 122)

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

- Ans**
- ✗ 1. (25, 36, 183)
  - ✗ 2. (18, 52, 70)
  - ✓ 3. (33, 23, 112)
  - ✗ 4. (71, 9, 320)

#### Section : Quantitative Aptitude

**Q.1** The given table shows the number of 5 types of cars (Swift, Sx4, Ertiga, Zen, Echo) manufactured (in thousand) by Maruti over the years.

Types of Car					
Year	Swift	Sx4	Ertiga	Zen	Echo
2007	250	200	128	140	115
2008	200	230	150	155	120
2009	230	225	142	160	135
2010	245	210	170	175	125
2011	260	135	180	185	130
2012	275	155	230	220	120

Which type of cars manufactured by Maruti during 2007 to 2012 is the minimum?

- Ans**
- ✗ 1. Swift
  - ✓ 2. Echo
  - ✗ 3. Zen
  - ✗ 4. Sx4

Q.2 What is the number which needs to be added to 20% of 460 to have the sum as 70% of 920?

- Ans
- ☐ 1. 926
  - ☐ 2. 762
  - ☒ 3. 552
  - ☐ 4. 335

Q.3 Simplify the following expression.

$$[40 - 48 \div 4 \text{ of } 3] \div \{(6 + 4) - 4 \text{ of } 4 + 4 + (6 - 4) + (4 \times 4) \div 4\} \times 3.$$

- Ans
- ☐ 1. 25
  - ☒ 2. 27
  - ☐ 3. 30
  - ☐ 4. 26

Q.4 Simplify:

$$\{(3^3 + 2^3) \times \frac{22}{7}\} \times \{(6^2 + 3^2 - 4^2) \div (14\frac{1}{2})\}$$

- Ans
- ☒ 1. 220
  - ☐ 2. 198
  - ☐ 3. 110
  - ☐ 4. 145

Q.5 The shortest length of the intercept between the x-axis and y-axis of the equation  $6x + 8y - 48 = 0$  is:

- Ans
- ☒ 1. 10 units
  - ☐ 2. 6 units
  - ☐ 3. 14 units
  - ☐ 4. 12 units

Q.6 A and B, working together, take 15 days to complete a piece of work. If A alone can do this work in 18 days, then how long would B take to complete the same work?

- Ans
- ☐ 1. 33 days
  - ☒ 2. 90 days
  - ☐ 3. 8 days
  - ☐ 4. 15 days

Q.7 The price of an article is first increased by 40% and then decreased by 45%, due to reduction in sales. Find the net percentage change in the final price of the article.

- Ans
- ☒ 1. -23%
  - ☐ 2. 23%
  - ☐ 3. 13%
  - ☐ 4. -13%

Q.8 If price of an article increases successively by 15% and 10%, respectively, then what is the percentage equivalent to a single price increase of that article?

- Ans
- ✓ 1. 26.5%
  - ✗ 2. 12.5%
  - ✗ 3. 25%
  - ✗ 4. 23.5%

Q.9 Two quantities are in the ratio 3 : 5. If the first quantity is 155 kg. Find the other quantity (approximately).

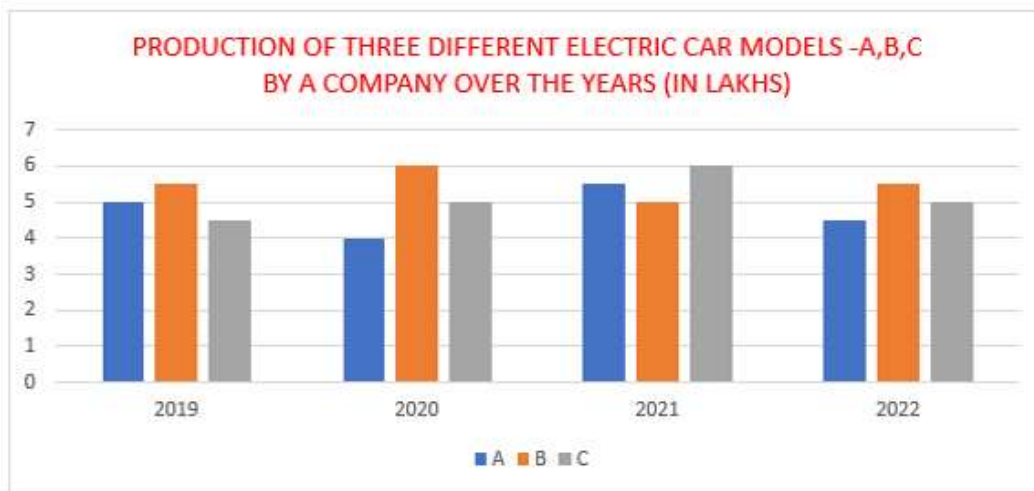
- Ans
- ✓ 1. 258.3 kg
  - ✗ 2. 150.5 kg
  - ✗ 3. 200.4 kg
  - ✗ 4. 240.6 kg

Q.10 If  $\Delta ABC \sim \Delta QRP$ ; area of  $\Delta ABC$  : area of  $\Delta PQR = 9 : 4$ ;  $AB = 18$  cm and  $BC = 15$  cm, then find the length of  $PR$ .

- Ans
- ✗ 1. 15 cm
  - ✓ 2. 10 cm
  - ✗ 3. 12 cm
  - ✗ 4. 14 cm

Q.11 Study the given bar-graph and answer the question that follows.

An electric vehicle company produces three different car models – A, B and C. The production of three different models over a period of four years (in lakhs) has been shown the bar-graph.



The total production of model C in 2021 and 2022 is what percentage of the total production of model A in 2019 and 2020?

- Ans
- ✗ 1. 102.26%
  - ✗ 2. 105.22%
  - ✗ 3. 115.57%
  - ✓ 4. 122.22%

Q.12 Let C be a circle with Centre O and P be an external point to C. Let PQ and PR be the tangents to C such that Q and R be the points of tangency, respectively. If  $\angle ROQ = 110^\circ$ , find  $\angle RPQ$ .

- Ans
- ✗ 1.  $90^\circ$
  - ✓ 2.  $70^\circ$
  - ✗ 3.  $80^\circ$
  - ✗ 4.  $110^\circ$

Q.13 An iron box with external dimensions 60 cm, 40 cm, and 20 cm is made of 1 cm thick sheet. If  $1 \text{ cm}^3$  of iron weighs 50 gm, the weight of the empty box is:

- Ans
- ☐ 1. 214.05 kg
  - ☐ 2. 240 kg
  - ☐ 3. 400 kg
  - ☒ 4. 416.40 kg

Q.14 Two circles of diameters 16 cm and 20 cm are such that the distance between their centers is 13 cm. What is the length (in cm) of a common tangent to these circles that does not intersect the line joining the centers?

- Ans
- ☒ 1.  $\sqrt{165}$
  - ☐ 2.  $\sqrt{173}$
  - ☐ 3.  $\sqrt{167}$
  - ☐ 4.  $\sqrt{163}$

Q.15 Find the difference between the curved surface area and total surface area of a right circular cylinder having a length of 68 cm and base diameter of 28 cm.

- Ans
- ☐ 1.  $1432 \text{ cm}^2$
  - ☐ 2.  $1132 \text{ cm}^2$
  - ☐ 3.  $1332 \text{ cm}^2$
  - ☒ 4.  $1232 \text{ cm}^2$

Q.16 If the diameter of a hemisphere is 42 cm, then the volume of hemisphere (in  $\text{cm}^3$ ) is:

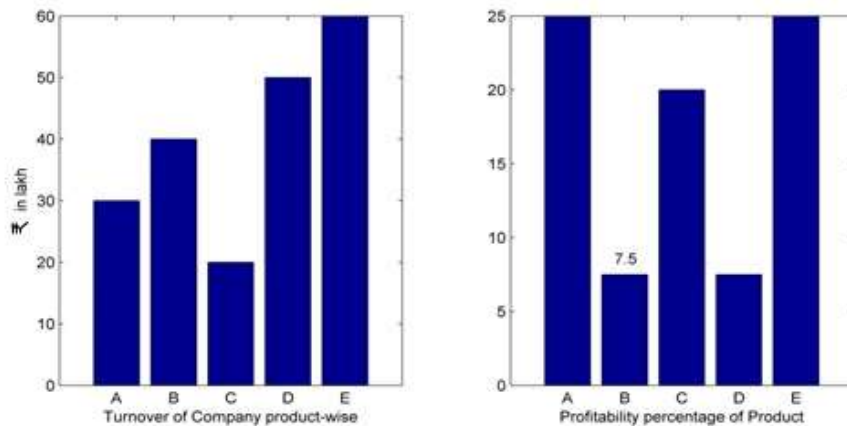
Take  $\pi = \frac{22}{7}$

- Ans
- ☒ 1. 19404
  - ☐ 2. 19254
  - ☐ 3. 19154
  - ☐ 4. 19444



Q.17

Study the given bar-graphs and answer the question that follows.

Turnover of Company X (Product-wise: A,B,C,D and E)

Approximately what is the share in the total profit enjoyed by A and E together?

Ans

- ✓ 1. 70%  
 ✗ 2. 80%  
 ✗ 3. 60%  
 ✗ 4. 50%

Q.18 The perimeter of a triangle is 36 units. Its area cannot be more than \_\_\_\_\_ square units.

Ans

- ✗ 1.  $36\sqrt{2}$   
 ✓ 2.  $36\sqrt{3}$   
 ✗ 3.  $12\sqrt{7}$   
 ✗ 4.  $18\sqrt{5}$

Q.19 A shopkeeper marks an article at ₹150 and sells it at a discount of 25%. He also gives a gift worth ₹2.5. If he still makes a 10% profit, then the cost price (in ₹) of the article is:

Ans

- ✓ 1. 100  
 ✗ 2. 175  
 ✗ 3. 112  
 ✗ 4. 125

Q.20 If  $\theta$  is an acute angle and  $\tan\theta + \cot\theta = 2$ , then find the value of  $\tan^3\theta + \cot^3\theta + 6\tan^3\theta\cot^2\theta$ .

Ans

- ✗ 1. 6  
 ✗ 2. 10  
 ✗ 3. 12  
 ✓ 4. 8

**Q.21** A policeman received information that a thief is at a distance of 1.5 km from him. The thief starts moving by car and the policeman chases him by car. The thief and the policeman are moving at the speeds of 90 km/h and 120 km/h respectively. At what distance (in km) will the police catch the thief?

- Ans**
- ☐ 1. 45.0 km
  - ☐ 2. 5 km
  - ☒ 3. 6 km
  - ☐ 4. 4.5 km

**Q.22** A shopkeeper bought 288 oranges for ₹115.20. He sold 50 of them at 70 paise each and the remaining at ₹46.20. Find his profit or loss.

- Ans**
- ☐ 1. Profit, ₹25
  - ☒ 2. Loss, ₹34
  - ☐ 3. Profit, ₹37
  - ☐ 4. Loss, ₹36

**Q.23** Mithila covers 50 km by bus in 90 minutes. After deboarding the bus, she takes rest for 15 minutes and covers another 30 km by a taxi in 35 minutes. Find the average speed (in km/h) for the whole journey.

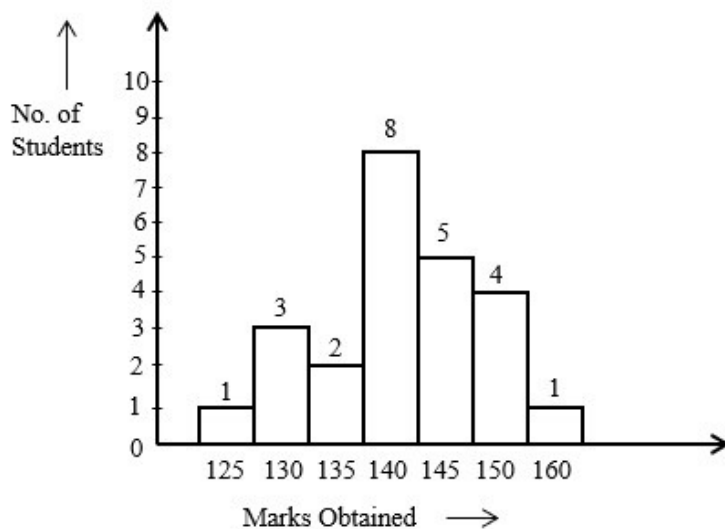
- Ans**
- ☐ 1.  $31\frac{2}{7}$
  - ☐ 2.  $32\frac{2}{7}$
  - ☒ 3.  $34\frac{2}{7}$
  - ☐ 4.  $33\frac{2}{7}$

**Q.24** Find the total amount of debt that will be discharged by 5 equal instalments of ₹200 each, if the debt is due in 5 years at 5% p.a. at simple interest.

- Ans**
- ☐ 1. ₹1,400
  - ☒ 2. ₹1,100
  - ☐ 3. ₹1,200
  - ☐ 4. ₹1,255

Q.25

Study the given bar-graph and answer the question that follows.



How many students obtained more than the average marks of the class?

Ans

☐ 1. 11☐ 2. 6☒ 3. 10☐ 4. 8

## Section : General Awareness

Q.1 The Citizenship Act, 1955 does NOT deal with \_\_\_\_\_.

Ans

☐ 1. termination☒ 2. election☐ 3. determination☐ 4. acquisition

Q.2 Which of the following animals can change their gender during their life span?

Ans

☐ 1. Ascaris☐ 2. Humans☐ 3. nereis☒ 4. Snail

Q.3 Match the following renewable sources of energy with their producing regions in India correctly.

Renewable source of energy	Regions in India
1. Tidal energy	a. Gulf of Khambhat
2. Wind energy	b. Nagercoil
3. Geo Thermal energy	c. Puga valley

Ans

☐ 1. 1-b, 2-c, 3-a☒ 2. 1-a, 2-b, 3-c☐ 3. 1-b, 2-a, 3-c☐ 4. 1-c, 2-b, 3-a

**Q.4** Khubakeshei is a kind of song accompanied by clapping, sung in the state of \_\_\_\_.

- Ans**
- ☒ 1. Manipur
  - ☐ 2. Bihar
  - ☐ 3. Karnataka
  - ☐ 4. Odisha

**Q.5** Which of the following methods measures poverty on the basis of income and consumption levels?

- Ans**
- ☐ 1. Poverty limit
  - ☒ 2. Poverty line
  - ☐ 3. Poverty bar
  - ☐ 4. Poverty band

**Q.6** The Lushai Hills are also known as \_\_\_\_.

- Ans**
- ☒ 1. Mizo Hills
  - ☐ 2. Khasi Hills
  - ☐ 3. Patkai Hills
  - ☐ 4. Naga Hills

**Q.7** Where is Birsā Munda International Hockey Stadium located?

- Ans**
- ☐ 1. Bhubaneswar
  - ☐ 2. Jamshedpur
  - ☐ 3. Ranchi
  - ☒ 4. Rourkela

**Q.8** To enhance the interoperability between the Indian and Russian Armies, a joint training exercise called \_\_\_\_\_ commenced at Prudboy Ranges, Volgograd in the year 2021.

- Ans**
- ☐ 1. SHAKTI 2021
  - ☒ 2. INDRA 2021
  - ☐ 3. SURYA KIRAN 2021
  - ☐ 4. VARUNA 2021

**Q.9** Which of the following is NOT one of the consequences of the Green Revolution?

- Ans**
- ☒ 1. Rising prices and a shift in the mode of payment of agricultural workers from payment in cash to payment in kind (grain)
  - ☐ 2. The rich grew richer and many of the poor stagnated or grew poorer
  - ☐ 3. Wages of agricultural workers increased
  - ☐ 4. Employment of agricultural workers increased

**Q.10** Which of the following is the maximum file size that can be attached to an email message in Gmail?

- Ans**
- ☐ 1. 100 MB
  - ☐ 2. 200 MB
  - ☐ 3. 50 MB
  - ☒ 4. 25 MB

**Q.11** The famous folk music 'Hekialeu' has its origin in which state?

- Ans**
- ☐ 1. Tami Nadu
  - ☒ 2. Nagaland
  - ☐ 3. Goa
  - ☐ 4. Assam

**Q.12** The British Government passed a law in the year 1856. It was meant for which among the following social reforms?

- Ans**
- ☐ 1. Abolition of the Practice of Sati
  - ☒ 2. Widow Remarriage
  - ☐ 3. Abolition of Practice of Child Marriage
  - ☐ 4. Law against Murdering of Female Child

**Q.13** A circular coil having 'n' turns produces a field \_\_\_\_\_ times large as that produced by a single turn

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

**Q.14** Which of the following statements is INCORRECT regarding the Coriolis force?

- Ans**
- ☐ 1. It is absent at the equator.
  - ☒ 2. Deflection is less when the wind is high.
  - ☐ 3. It deflects the wind to the right in the north and left in the south.
  - ☐ 4. It is directly proportional to the angle of altitude

**Q.15** Which of the following state is the best governed state in the large states category as per the Public Affairs Index, 2020, which was released by the Public Affairs Centre, a non-profit organisation?

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

**Q.16** In April 2023, Wing Commander Deepika Misra received which of the following awards?

- Ans**
- ☒ 1. Vayu Sena Medal
  - ☐ 2. Uttam Yudh Seva Medal
  - ☐ 3. Vir Chakra
  - ☐ 4. Shaurya Chakra

**Q.17** Gugga is the famous ritualistic dance of \_\_\_\_\_, which is performed in the procession taken out in memory of Gugga Pir.

- Ans**
- ☐ 1. Puducherry
  - ☐ 2. Uttar Pradesh
  - ☒ 3. Haryana
  - ☐ 4. Jammu & Kashmir

**Q.18** What takes place when you click the Save button or press Ctrl + S in Microsoft Word?

- Ans**
- ☐ 1. The document is copied to the clipboard.
  - ☐ 2. The document is printed.
  - ☐ 3. The document is closed.
  - ☒ 4. The document is saved in a disk file.

**Q.19** What is the colour of the sending off card in football?

- Ans**
- ☐ 1. Black
  - ☒ 2. Red
  - ☐ 3. Blue
  - ☐ 4. Yellow

Q.20 Maldives are located to the south of which island of India?

- Ans
- ☐ 1. Andaman and Nicobar
  - ☒ 2. Lakshadweep
  - ☐ 3. Japan
  - ☐ 4. Sri Lanka

Q.21 Muharram is the \_\_\_\_\_ month of the Islamic Calendar and is considered a holy month.

- Ans
- ☐ 1. fourth
  - ☐ 2. second
  - ☐ 3. third
  - ☒ 4. first

Q.22 Fighting in the upright position in judo is called \_\_\_\_\_.

- Ans
- ☒ 1. tachi-waza
  - ☐ 2. ne-waza
  - ☐ 3. ashi-waza
  - ☐ 4. koshi-waza

Q.23 At which place was the magnificent temple of Saiva constructed by the great Rashtrakuta King 'Krishna I'?

- Ans
- ☐ 1. Kanchi
  - ☐ 2. Badami
  - ☐ 3. Kannauj
  - ☒ 4. Ellora

Q.24 Which of the following Articles of the Constitution states that 'It shall be the duty of every citizen of India to promote harmony and the spirit of common brotherhood amongst all the people of India transcending religious, linguistic and regional or sectional diversities; to renounce practices derogatory to the dignity of women.'?

- Ans
- ☐ 1. 51 A (b)
  - ☐ 2. 51 A (d)
  - ☒ 3. 51 A (e)
  - ☐ 4. 51 A (c)

Q.25 Which of the following is the correct formula for calculating NNP?

- Ans
- ☒ 1.  $NNP = GNP - \text{DEPRECIATION}$
  - ☐ 2.  $NNP = GNP + \text{DEPRECIATION}$
  - ☐ 3.  $NNP = GDP - \text{INCOME}$
  - ☐ 4.  $NNP = GDP - \text{DEPRECIATION}$