

## Combined Higher Secondary Level Examination 2024 Tier I

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|------------|-----------------------|
| Venue Name |                       |
| Exam Date  | 05/07/2024            |
| Exam Time  | 11:45 AM - 12:45 PM   |
| Subject    | CHSL Exam 2024 Tier I |

**Q.1** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The soldiers / were selected / on the section / of 'gallantry of spirits'.

- Ans ☒ 1. The soldiers
- ☒ 2. were selected
- ☒ 3. of 'gallantry of spirits'.
- ☒ 4. on the section

**Q.2** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

We has travelled / to many states / of India to get / an essence of its diversity.

- Ans ☒ 1. of India to get
- ☒ 2. to many states
- ☒ 3. an essence of its diversity
- ☒ 4. We has travelled

**Q.3** Select the option that corrects the following sentence.  
All tickets of the FIFA World Cup have been sold away.

- Ans ☒ 1. All tickets of the FIFA World Cup have been sold out.
- ☒ 2. All tickets of the FIFA World Cup have been sold among.
- ☒ 3. All tickets of the FIFA World Cup have been sold into.
- ☒ 4. All tickets of the FIFA World Cup have been sold across.

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

The captain dropped the trophy while he \_\_\_\_\_ the victory with his teammates.

- Ans ☒ 1. celebrates
- ☒ 2. was celebrating
- ☒ 3. is celebrating
- ☒ 4. celebrated

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**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.

For decades, humans have tried to theorise the origin and evolution of the universe. Many theories have been proposed and rejected. However, the Big Bang theory has been the most (1) \_\_\_\_\_ accepted. According to this theory, the universe began as a single point, or singularity, around 13.8 billion years ago. This singularity contained all the matter and energy that would eventually (2) \_\_\_\_\_ the stars, galaxies and other structures that make up our universe today. The Big Bang theory is supported by a (3) \_\_\_\_\_ of observational evidence, including the cosmic microwave background radiation, the (4) \_\_\_\_\_ of light elements in the universe and the large-scale structure of the cosmos. Despite its success, the Big Bang theory is still an active area of research, with scientists seeking to better understand the earliest moments of the universe and the (5) \_\_\_\_\_ of dark matter and energy.

**SubQuestion No : 5**

**Q.5 Select the most appropriate option to fill in blank number 1.**

- Ans ☒ 1. loosely  
☒ 2. largely  
☒ 3. widely  
☒ 4. vastly

**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.

For decades, humans have tried to theorise the origin and evolution of the universe. Many theories have been proposed and rejected. However, the Big Bang theory has been the most (1) \_\_\_\_\_ accepted. According to this theory, the universe began as a single point, or singularity, around 13.8 billion years ago. This singularity contained all the matter and energy that would eventually (2) \_\_\_\_\_ the stars, galaxies and other structures that make up our universe today. The Big Bang theory is supported by a (3) \_\_\_\_\_ of observational evidence, including the cosmic microwave background radiation, the (4) \_\_\_\_\_ of light elements in the universe and the large-scale structure of the cosmos. Despite its success, the Big Bang theory is still an active area of research, with scientists seeking to better understand the earliest moments of the universe and the (5) \_\_\_\_\_ of dark matter and energy.

**SubQuestion No : 6**

**Q.6 Select the most appropriate option to fill in blank number 2.**

- Ans ☒ 1. prepare  
☒ 2. destroy  
☒ 3. design  
☒ 4. form

**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.

For decades, humans have tried to theorise the origin and evolution of the universe. Many theories have been proposed and rejected. However, the Big Bang theory has been the most (1) \_\_\_\_\_ accepted. According to this theory, the universe began as a single point, or singularity, around 13.8 billion years ago. This singularity contained all the matter and energy that would eventually (2) \_\_\_\_\_ the stars, galaxies and other structures that make up our universe today. The Big Bang theory is supported by a (3) \_\_\_\_\_ of observational evidence, including the cosmic microwave background radiation, the (4) \_\_\_\_\_ of light elements in the universe and the large-scale structure of the cosmos. Despite its success, the Big Bang theory is still an active area of research, with scientists seeking to better understand the earliest moments of the universe and the (5) \_\_\_\_\_ of dark matter and energy.

**SubQuestion No : 7**

**Q.7 Select the most appropriate option to fill in blank number 3.**

- Ans ☒ 1. wealth  
☒ 2. rich  
☒ 3. store  
☒ 4. debt

### 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.

For decades, humans have tried to theorise the origin and evolution of the universe. Many theories have been proposed and rejected. However, the Big Bang theory has been the most (1) \_\_\_\_\_ accepted. According to this theory, the universe began as a single point, or singularity, around 13.8 billion years ago. This singularity contained all the matter and energy that would eventually (2) \_\_\_\_\_ the stars, galaxies and other structures that make up our universe today. The Big Bang theory is supported by a (3) \_\_\_\_\_ of observational evidence, including the cosmic microwave background radiation, the (4) \_\_\_\_\_ of light elements in the universe and the large-scale structure of the cosmos. Despite its success, the Big Bang theory is still an active area of research, with scientists seeking to better understand the earliest moments of the universe and the (5) \_\_\_\_\_ of dark matter and energy.

### SubQuestion No : 8

**Q.8** Select the most appropriate option to fill in blank number 4.

- Ans ☒ 1. success  
☒ 2. plenty  
☒ 3. abundance  
☒ 4. fortune

### 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.

For decades, humans have tried to theorise the origin and evolution of the universe. Many theories have been proposed and rejected. However, the Big Bang theory has been the most (1) \_\_\_\_\_ accepted. According to this theory, the universe began as a single point, or singularity, around 13.8 billion years ago. This singularity contained all the matter and energy that would eventually (2) \_\_\_\_\_ the stars, galaxies and other structures that make up our universe today. The Big Bang theory is supported by a (3) \_\_\_\_\_ of observational evidence, including the cosmic microwave background radiation, the (4) \_\_\_\_\_ of light elements in the universe and the large-scale structure of the cosmos. Despite its success, the Big Bang theory is still an active area of research, with scientists seeking to better understand the earliest moments of the universe and the (5) \_\_\_\_\_ of dark matter and energy.

### SubQuestion No : 9

**Q.9** Select the most appropriate option to fill in blank number 5.

- Ans ☒ 1. brand  
☒ 2. capture  
☒ 3. environment  
☒ 4. nature

**Q.10** Identify the most appropriate ANTONYM of the underlined word in the given sentence.

The vendor said that the apples were of superior quality.

- Ans ☒ 1. Distasteful  
☒ 2. Excellent  
☒ 3. Inferior  
☒ 4. Small

**Q.11** Select the most appropriate option that can substitute the underlined segment in the given sentence.

Employers in many developing countries report that a lack of skilled workers is a major and increasing bottleneck for their operations, affected their capacity to innovate.

- Ans ☒ 1. effect their capacity  
☒ 2. affect their capacity  
☒ 3. effecting their capacity  
☒ 4. affecting their capacity

**Q.12** Select the most appropriate option that can substitute the underlined word in the given sentence.  
The dedicated teacher laboured assiduously to aid her pupils in achieving success.

- Ans ☒ 1. committed  
☐ 2. apathetic  
☐ 3. uninvolved  
☐ 4. un-biased

**Q.13** Select the most appropriate option to fill in the blank.

Which \_\_\_\_\_ do you usually take to reach your office?

- Ans ☐ 1. rude  
☒ 2. route  
☐ 3. root  
☐ 4. rout

**Q.14** Read the sentence carefully and select the most appropriate option to substitute the underlined part.

The clamour distracted the priest and made him angry.

- Ans ☐ 1. narrow-mindedness  
☐ 2. humorous deception  
☒ 3. loud and confused noise  
☐ 4. introduction of new things

**Q.15** Select the most appropriate meaning of the given idiom.

Bag and baggage

- Ans ☐ 1. By force  
☐ 2. Fair and honest  
☐ 3. At the service  
☒ 4. With all goods

**Q.16** Select the most appropriate synonym of the given word.  
Tedious

- Ans ☐ 1. Happening  
☐ 2. Exciting  
☐ 3. Working  
☒ 4. Boring

**Q.17** Select the INCORRECTLY spelt word.

- Ans ☐ 1. Immaculate  
☒ 2. Innoculate  
☐ 3. Irreverent  
☐ 4. Immense

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

Permit

Ans ☒ 1. Approve

☐ 2. Flout

☐ 3. Disgrace

☐ 4. Abandon

**Q.19** Select the most appropriate ANTONYM of the underlined word.

No one trusts her as her reasons are always explicit.

Ans ☐ 1. Exact

☒ 2. Ambiguous

☐ 3. Precise

☐ 4. Distant

**Q.20** Select the most appropriate homophone to fill in the blank.

Arun knows perfectly well how to mix the food items with \_\_\_\_\_.

Ans ☒ 1. sauce

☐ 2. sause

☐ 3. source

☐ 4. saws

**Q.21** The following sentence has been split into four segments. Identify the segment that contains a spelling error.

The make-up room was filled / with incadescent lights / which added to the misery / of those subjected to make-up.

Ans ☐ 1. The make-up room was filled

☒ 2. with incadescent lights

☐ 3. which added to the misery

☐ 4. of those subjected to make-up

**Q.22** Select the most appropriate meaning of the underlined idiom.

The United Nations is working to eliminate the vicious cycle of poverty.

Ans ☒ 1. One problem causes other

☐ 2. Strength of something

☐ 3. Loophole of something

☐ 4. The barrier of poverty

**Q.23** Select the correct collocation to complete the following sentence.

He made \_\_\_\_\_ use of the opportunity to travel.

Ans ☐ 1. entire

☐ 2. whole

☐ 3. total

☒ 4. full

**Q.24** Select the most appropriate option that can substitute the underlined word segment in the following sentence.

The girl which is wearing a blue shirt is my sister.

- Ans ☒ 1. who is wearing a blue shirt
- ☐ 2. who wear a blue shirt
- ☐ 3. which wear a blue shirt
- ☐ 4. which is wearing the blue shirt

**Q.25** Select the most appropriate ANTONYM of the underlined word in the given sentence.  
Essays must be concise .

- Ans ☒ 1. Lengthy
- ☐ 2. Precise
- ☐ 3. Excise
- ☐ 4. Total

**Q.1** TMBF is related to ATIM in a certain way based on the English alphabetical order. In the same way, CLGP is related to JSNW. To which of the following is QEAD related, following the same logic?

- Ans ☐ 1. XKHL
- ☐ 2. XLKH
- ☐ 3. XHKL
- ☒ 4. XLHK

**Q.2** 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:

All jams are butter.

Some nibs are ink.

Some nibs are butter.

Conclusion (I): Some ink is butter.

Conclusion (II): All jams are nibs.

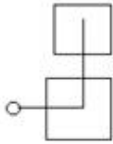
- Ans ☐ 1. Only conclusion (II) follows.
- ☐ 2. Only conclusion (I) follows.
- ☒ 3. Neither conclusion (I) nor (II) follows.
- ☐ 4. Both conclusions (I) and (II) follow.

**Q.3** Select the option in which the given figure is embedded. (Rotation is NOT allowed.)

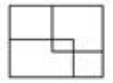


**Ans**

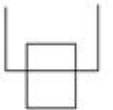
☒ 1.



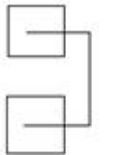
☒ 2.



☒ 3.



☒ 4.



**Q.4** If 19 July 2012 is Thursday, then what will be the day of the week on 11 January 2018?

**Ans** ☒ 1. Wednesday

☒ 2. Saturday

☒ 3. Monday

☒ 4. Thursday

**Q.5** 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?

$$17 \text{ C } 69 \text{ A } 3 \text{ D } 22 \text{ B } 1 = ?$$

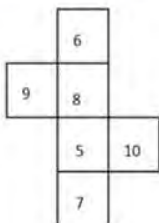
**Ans** ☒ 1. 14

☒ 2. 16

☒ 3. 12

☒ 4. 18

**Q.6** What would be the number on the opposite side of '8' if the given sheet is folded to form a cube?



**Ans** ☒ 1. 10

☒ 2. 6

☒ 3. 7

☒ 4. 5

**Q.7** Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(13, 234, 9)  
(15, 180, 6)

(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. (12, 108, 9)

☒ 2. (14, 196, 7)

☒ 3. (16, 240, 5)

☒ 4. (17, 340, 5)

**Q.8** What should come in place of the question mark (?) in the given series?

63, 64, 66, 69, 73, ?

Ans ☒ 1. 80

☒ 2. 78

☒ 3. 77

☒ 4. 79

**Q.9** The position of how many letters will remain unchanged if all the letters in the word DIALECT are arranged in alphabetical order?

Ans ☒ 1. Three

☒ 2. One

☒ 3. Four

☒ 4. Two

**Q.10** What will come in the place of '?' in the following equation if '+' and 'x' are interchanged and '-' and '÷' are interchanged?  
 $21 - 7 \times 26 + 46 \div 36 = ?$

Ans ☒ 1. 908

☒ 2. 1163

☒ 3. 760

☒ 4. 8667

**Q.11** Which of the following numbers will replace the question mark (?) in the given series?

11 4 22 20 44 100 88 500 ?

Ans ☒ 1. 154

☒ 2. 182

☒ 3. 176

☒ 4. 160

**Q.12** What should come in place of ? in the given series based on the English alphabetical order?

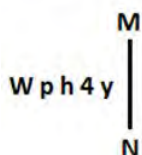
TUV RXR ? NDJ LGF

- Ans**
- ☒ 1. NAP
  - ☒ 2. VOI
  - ☒ 3. PAN
  - ☒ 4. CAL

**Q.13** In a certain code language, 'SOAP' is coded as '4629' and 'SPOT' is coded as '9824'. How is 'A' coded in the given language?

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

**Q.14** Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans**
- ☒ 1. y P d q W
  - ☒ 2. y p h 4 W
  - ☒ 3. y P h q W
  - ☒ 4. A P d q W

**Q.15** In a certain code language,

$A + B$  means 'A is the daughter of B'

$A - B$  means 'A is the wife of B'

$A \times B$  means 'A is the brother of B'

$A \div B$  means 'A is the father of B'.

Based on the above, if ' $P + Q \times R - S \div T$ ', which of the following is true?

- Ans**
- ☒ 1. T is S's Son.
  - ☒ 2. P is the daughter of T's Mother's Brother.
  - ☒ 3. P is the sister of T.
  - ☒ 4. Q is the brother of S.

**Q.16** Which figure should replace the question mark (?) if the following figure series were to be continued?

|   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q | □ | 3 | I | 5 | △ | △ | I | 5 | Q | 9 | 3 |   |
|   | △ |   |   | Q |   |   | 3 |   |   | △ |   | ? |
| I | 5 | G | G | □ | 3 | Q | 9 | G | G | I | 5 |   |

Ans

✓ 1.

|   |   |   |
|---|---|---|
| 3 | Q | 9 |
|   | 5 |   |
| △ | E | G |

✗ 2.

|   |   |   |
|---|---|---|
| 3 | Q | 9 |
|   | I |   |
| 5 | △ | G |

✗ 3.

|   |   |   |
|---|---|---|
| 3 | Q | 9 |
|   | 5 |   |
| △ | G | E |

✗ 4.

|   |   |   |
|---|---|---|
| 3 | Q | 9 |
|   | E |   |
| 5 | G | I |

**Q.17** RTVX is related to SUWY in a certain way based on the English alphabetical order. In the same way, KMOQ is related to LNPR. To which of the following is FHJL related, following the same logic?

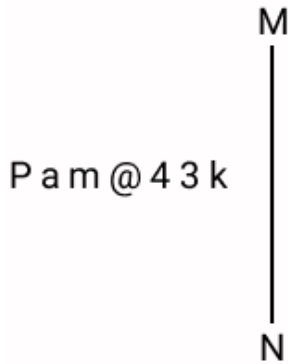
Ans ✗ 1. GIJK

✗ 2. GIKN

✓ 3. GIKM

✗ 4. GHJK

Q.18 Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.



- Ans
- ☒ 1. k 4 3 @ m s P
  - ☒ 2. k 4 3 k @ m P a
  - ☒ 3. k 4 3 k @ m P a
  - ☒ 4. k 4 3 k @ m s P

Q.19 Select the correct option that when filled in the blanks in the same sequence will make the series logically complete.  
GH\_ST\_HO\_RGHOSPG\_OS\_

- Ans
- ☒ 1. ORHSN
  - ☒ 2. GOHNP
  - ☒ 3. OGSNN
  - ☒ 4. GORNH

Q.20 What will come in place of '?' in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?  
 $15 + 2 - 13 \times 13 \div 3 = ?$

- Ans
- ☒ 1. 24
  - ☒ 2. 23
  - ☒ 3. 18
  - ☒ 4. 16

Q.21 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. OMJ
  - ☒ 2. PNK
  - ☒ 3. BZW
  - ☒ 4. RTQ

Q.22 In a certain code language, 'pleased to meet' is written as 'bj sc vw' and 'meet and greet' is written as 'ih bj tf'. How is 'meet' written in the given language?

- Ans
- ☒ 1. bj
  - ☒ 2. ih
  - ☒ 3. tf
  - ☒ 4. vw

Q.23 12 is related to 72 following a certain logic. Following the same logic, 19 is related to 114. To which of the following is 29 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.)

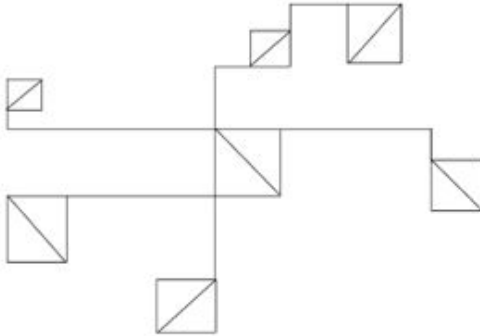
Ans ☒ 1. 171

☒ 2. 174

☒ 3. 173

☒ 4. 170

Q.24 How many triangles are there in the given figure?



Ans ☒ 1. 12

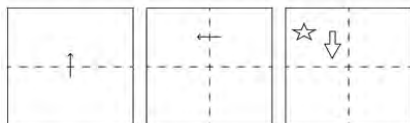
☒ 2. 14

☒ 3. 15

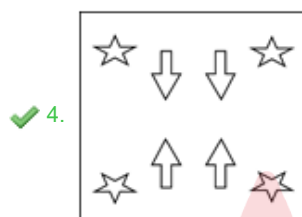
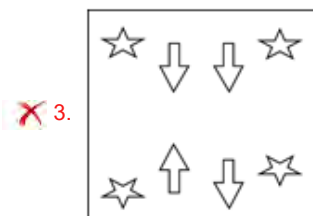
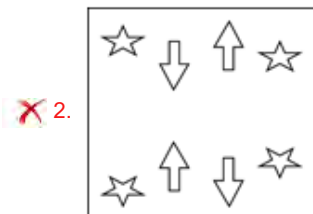
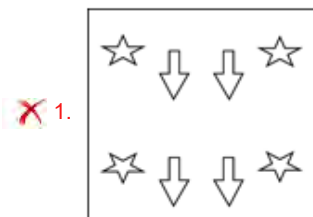
☒ 4. 13



**Q.25** A square sheet of paper is folded along the dotted line successively along the directions shown and is then punched in the last. How would the paper look when unfolded?



Ans



**Q.1** The sum of two-digit number and the number obtained by interchanging the digit is 77. If the difference of digits is 1, then the number is:

Ans ☒ 1. 67

☒ 2. 34

☒ 3. 12

☒ 4. 45

**Q.2** An equal sum of money was lent to P and Q at 8.6% per annum for a period of 7 years and 8 years, respectively. If the difference in interest paid by them was ₹172, then the sum lent to each was:

Ans ☒ 1. ₹2,000

☒ 2. ₹3,000

☒ 3. ₹2,150

☒ 4. ₹185

**Q.3** A solid copper sphere of radius 9 cm is drawn into a wire of radius 4 mm. Find the length of the wire.

- Ans ☒ 1. 70.25 m  
☒ 2. 60.75 m  
☒ 3. 20.75 m  
☒ 4. 65.25 m

**Q.4** A chord of length 12 units in a circle of radius 10 units is \_\_\_\_\_ units away from its centre.

- Ans ☒ 1. 8  
☒ 2. 9  
☒ 3. 10  
☒ 4. 6

**Q.5** The average age of 24 workers and their supervisor is 41 years. If the supervisor's age is excluded, the average reduces by 0.75 years. The age of the supervisor is:

- Ans ☒ 1. 59 years  
☒ 2. 41 years 9 months  
☒ 3. 40 years 9 months  
☒ 4. 49 years

**Q.6** PQ is a chord of a circle. The tangent XR at point X on the circle intersects the extension of PQ at point R. Given that XR = 12 cm, PQ = x cm, and QR = (x - 2) cm, find the value of x.

- Ans ☒ 1. 10 cm  
☒ 2. 9 cm  
☒ 3. 8 cm  
☒ 4. 11 cm

**Q.7** If  $\frac{1}{M} : \frac{1}{N} : \frac{1}{O} = 3 : 4 : 5$ , then M : N : O is equal to:

- Ans ☒ 1. 12 : 15 : 20  
☒ 2. 20 : 15 : 12  
☒ 3. 20 : 12 : 15  
☒ 4. 15 : 20 : 12

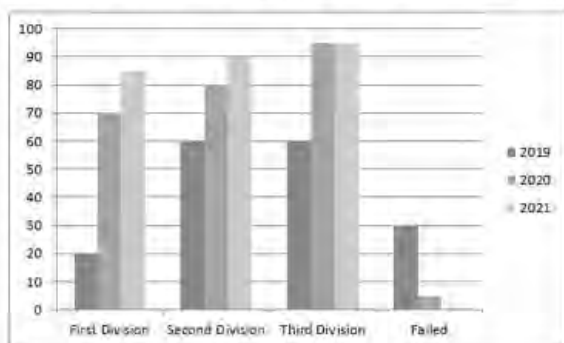
**Q.8** In an election between two candidates, one candidate gets 72% of the total votes cast. If the total votes are 1000, by how many votes does the winner win the election?

- Ans ☒ 1. 360  
☒ 2. 720  
☒ 3. 250  
☒ 4. 440

**Q.9** Write the smallest digit in the blank space of a number 7\_\_7624, so that the number formed is divisible by 3.

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

**Q.10** The given graph shows the higher secondary result of a particular school, from 2019 to 2021. Study the graph and answer the question that follows.



The percentage of students who passed in the year 2020 is:

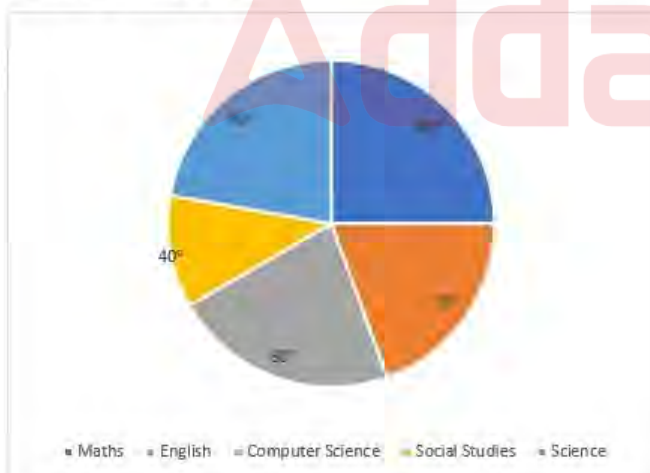
- Ans** ✓ 1. 98%
- ✗ 2. 30%
- ✗ 3. 70%
- ✗ 4. 28%

**Q.11** A number is first increased by 44% and then decreased by 30%. The net percentage change (rounded off to the nearest integer) in the original number is:

- Ans** ✓ 1. increase by 1%
- ✗ 2. increase by 4%
- ✗ 3. decrease by 1%
- ✗ 4. decrease by 4%

**Q.12** Study the given pie chart and answer the question that follows.

The pie chart shows the marks obtained by a student in an examination. The total marks he scored is 450.



The difference between the marks obtained in (English+Maths) and (Computer Science+Science) is:

- Ans** ✗ 1. 30
- ✓ 2. 0
- ✗ 3. 10
- ✗ 4. 20

Q.13 The given table shows the number of pizzas sold by four different bakeries in 5 different months.

| Bakery / Month | October | November | December | January | February |
|----------------|---------|----------|----------|---------|----------|
| X              | 102     | 120      | 105      | 130     | 140      |
| Y              | 98      | 104      | 115      | 120     | 136      |
| Z              | 89      | 106      | 112      | 118     | 126      |
| W              | 96      | 105      | 97       | 110     | 122      |

What is the respective ratio of the total number of pizzas sold by bakeries Y and Z together in November to the total number of pizzas sold by bakeries X and W together in the same month?

- Ans
- ☒ 1. 34 : 37
  - ☒ 2. 42 : 49
  - ☒ 3. 32 : 45
  - ☒ 4. 42 : 45

Q.14 Find the height of the triangle whose base is two-thirds of its height and whose area is  $363 \text{ cm}^2$

- Ans
- ☒ 1. 33 cm
  - ☒ 2. 27 cm
  - ☒ 3. 29 cm
  - ☒ 4. 31 cm

Q.15 To reach at a destination, D takes 45 minutes if he drives at a speed of  $60 \text{ km/h}$ . Due to some urgency, he is to reach the destination in 30 minutes. What should be his speed in  $\text{km/h}$ ?

- Ans
- ☒ 1. 90
  - ☒ 2. 75
  - ☒ 3. 60
  - ☒ 4. 80

Q.16 Simplify

$$\frac{\frac{1}{2} \div \frac{3}{4} \text{ of } \frac{5}{6}}{\frac{1}{2} \div \frac{3}{4} \times \frac{5}{6}} + \frac{2 + 2 \times 2}{2 \div 2 \times 2}$$

- Ans
- ☒ 1.  $\frac{111}{25}$
  - ☒ 2.  $\frac{121}{25}$
  - ☒ 3.  $\frac{75}{36}$
  - ☒ 4. 4

**Q.17** A shopkeeper marks up his goods 32% above the cost price and gives a discount of 21% on the marked price. Find his gain percentage on the goods.

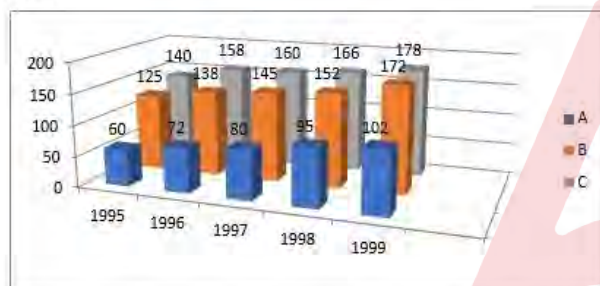
- Ans
- ☒ 1. 8.24%
  - ☒ 2. 8.42%
  - ☒ 3. 4.28%
  - ☒ 4. 4.82%

**Q.18** Ramendra purchased some watermelons for ₹1,500. He sold one-fourth of them at a loss of 12%. At what gain percentage should the remaining watermelons be sold so as to gain 25% on the whole transaction (correct to two decimal places)?

- Ans
- ☒ 1. 37.65%
  - ☒ 2. 33.73%
  - ☒ 3. 33.43%
  - ☒ 4. 37.33%

**Q.19** Study the given graph and answer the question that follows.

The graph shows the exports from three companies (A, B and C) over the years (in ₹ crore).



In how many given years, were the exports from company C less than the average annual exports over the given years?

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

**Q.20** Shobhita can complete a painting work in 20 hours while Saroj can complete the same work in 15 hours. In how much time (in hours) can the entire work of painting be completed, if both Shobhita and Saroj work simultaneously?

- Ans
- ☒ 1. 7
  - ☒ 2. 8
  - ☒ 3.  $8\frac{4}{7}$
  - ☒ 4.  $7\frac{4}{7}$

Q.21  $\triangle ABC$  and  $\triangle DEF$  are similar and their areas are respectively  $0.64 \text{ m}^2$  and  $0.0121 \text{ m}^2$ . If  $EF = 0.154 \text{ m}$ , then  $BC$  is:

- Ans
- ☒ 1. 11.2 m
  - ☒ 2. 1.12 m
  - ☒ 3. 1.15 m
  - ☒ 4. 2.12 m

Q.22 The diameter of the base of a cylindrical tank is 28 cm and its height is 42 cm. Find its curved surface area.

- Ans
- ☒ 1.  $3680 \text{ cm}^2$
  - ☒ 2.  $3686 \text{ cm}^2$
  - ☒ 3.  $3696 \text{ cm}^2$
  - ☒ 4.  $3690 \text{ cm}^2$

Q.23 The radii of two concentric circles are 35 cm and 21 cm. If the chord of the greater circle is a tangent to the smaller circle, then the length of that chord is:

- Ans
- ☒ 1. 70 cm
  - ☒ 2. 28 cm
  - ☒ 3. 42 cm
  - ☒ 4. 56 cm

Q.24 If  $\sin(X - Y) = \sin X \cos Y - \cos X \sin Y$ , then the value of  $\frac{\sin(A-B)}{\cos A \cos B} + \frac{\sin(B-C)}{\cos B \cos C}$  is:

- Ans
- ☒ 1.  $\frac{\cos(A + C)}{\cos A \cos C}$
  - ☒ 2.  $\frac{\sin(C - A)}{\cos A \cos C}$
  - ☒ 3.  $\frac{\cos(A + C)}{\sin A \sin C}$
  - ☒ 4.  $\frac{\sin(A - C)}{\cos A \cos C}$

Q.25 Raju spends 80% of his income. His income increased by 20%, while his spending rise by 10%. The percentage of increase in his savings is:

- Ans
- ☒ 1. 48%
  - ☒ 2. 30%
  - ☒ 3. 60%
  - ☒ 4. 40%

**Q.1** Which MS Excel function can be used to sum up the numbers entered in a group of cells?

- Ans**
- ☒ 1. AVERAGE
  - ☒ 2. COUNT
  - ☒ 3. SUM
  - ☒ 4. MAX

**Q.2** Which of the following planets' atmosphere is made up of thick white and yellowish clouds of sulphuric acid?

- Ans**
- ☒ 1. Venus
  - ☒ 2. Jupiter
  - ☒ 3. Mars
  - ☒ 4. Neptune

**Q.3** Marathi language is in the \_\_\_\_\_ language family.

- Ans**
- ☒ 1. Indo Aryan
  - ☒ 2. Austric
  - ☒ 3. Sino-India
  - ☒ 4. Austro

**Q.4** The Tokyo Paralympics 2020 gold medal winner Krishna Nagar is associated with \_\_\_\_\_.

- Ans**
- ☒ 1. badminton
  - ☒ 2. wrestling
  - ☒ 3. shooting
  - ☒ 4. table tennis

**Q.5** The Constitution of India was adopted on \_\_\_\_\_.

- Ans**
- ☒ 1. 26 January 1949
  - ☒ 2. 24 November 1947
  - ☒ 3. 26 January 1950
  - ☒ 4. 26 November 1949

**Q.6** Which of the Mendel's laws states that a diploid organism passes a randomly selected allele for a trait to its offspring, such that the offspring inherit one allele from each parent?

- Ans**
- ☒ 1. Law of independent assortment
  - ☒ 2. Law of segregation
  - ☒ 3. Law of dominance
  - ☒ 4. Law of paired factor

**Q.7** Which directive principle has been implemented in establishing Handloom and Handicrafts Boards?

- Ans**
- ☒ 1. Participation of workers in management of Industries
  - ☒ 2. Provision for just and humane condition of work
  - ☒ 3. Protection and improvement of environment
  - ☒ 4. Promote cottage industries on cooperative basis

Q.8 Who is Chairman of the Union Public Service Commission as on 31 March 2024?

- Ans ☒ 1. Shri Manoj Soni  
☐ 2. Shri BN Jha  
☐ 3. Ms. Smita Nagaraj  
☐ 4. Mrs. Preeti Sudan

Q.9 In 2026, which country will host Asian Games?

- Ans ☐ 1. India  
☒ 2. Japan  
☐ 3. China  
☐ 4. Nepal

Q.10 Who among the following was the first Sultan of Delhi to style himself as 'Zil-i-Ilahi'?

- Ans ☐ 1. Feroz Shah  
☐ 2. Iltutmish  
☒ 3. Balban  
☐ 4. Qutbuddin Aibak

Q.11 The music of traditional \_\_\_\_\_ consists of thumri and other lyrical song forms.

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

Q.12 Which of the following is a public sector owned and operated entity?

- Ans ☒ 1. BHEL  
☐ 2. Tata Steel Ltd  
☐ 3. Bajaj Auto Ltd  
☐ 4. Oil India Ltd.

Q.13 Due to the efforts of whom among the following social reformers was the first Hindu Widow Remarriage Act introduced and passed in 1856?

- Ans ☐ 1. Radhakant Deb  
☐ 2. Raja Ram Mohan Roy  
☒ 3. Ishwar Chandra Vidyasagar  
☐ 4. Atmaram Pandurang

Q.14 In 1960, which isotope was used to define the standard measure of length?

- Ans ☐ 1. Krypton-88  
☐ 2. Krypton-90  
☒ 3. Krypton-86  
☐ 4. Krypton-83

**Q.15** There is a cable manufacturing facility at HCL in Rupnarainpur. It is belong to which state?

- Ans ☐ 1. Haryana  
☐ 2. Assam  
☐ 3. Andhra Pradesh  
☒ 4. West Bengal

**Q.16** Gandhi Jayanti marks the birthday of the father of the nation Mahatma Gandhi, who was born at \_\_\_\_\_.

- Ans ☐ 1. Gandhinagar  
☐ 2. Ahmedabad  
☒ 3. Porbandar  
☐ 4. Vadodara

**Q.17** The process of merging data from a data source into a main document in a word-processing application is called:

- Ans ☐ 1. data accumulation  
☒ 2. mail merge  
☐ 3. data concatenation  
☐ 4. data integration

**Q.18** Give Plastic and Take Gold scheme was launched in the village of which State/UT in year 2023?

- Ans ☐ 1. Assam  
☐ 2. Gujarat  
☒ 3. Jammu and Kashmir  
☐ 4. Lakshadweep

**Q.19** Which is the Standard Meridian of India?

- Ans ☐ 1. 81°30' E  
☒ 2. 82°30' E  
☐ 3. 83°30' E  
☐ 4. 84°40' E

**Q.20** Who is the author of the Indian national anthem?

- Ans ☐ 1. Bankim Chandra Chattopadhyay  
☒ 2. Rabindranath Tagore  
☐ 3. Kazi Nazrul Islam  
☐ 4. Ishwar Chandra Vidyasagar

**Q.21** Which of the following is NOT a feature of a monopoly?

- Ans ☐ 1. One seller and many buyers  
☐ 2. Full control over the price by the seller  
☒ 3. One buyer and many sellers  
☐ 4. No close substitutes

**Q.22** Who was the first Indian wrestler to win Gold at the World Championships in 2010?

- Ans
- ☒ 1. Geeta Phogat
  - ☒ 2. Sushil Kumar
  - ☐ 3. Alka Tomar
  - ☐ 4. Bajrang Punia

**Q.23** Ohira folk music is primarily associated with one of the popular festivals of which of the following states?

- Ans
- ☒ 1. Jharkhand
  - ☐ 2. Karnataka
  - ☐ 3. Assam
  - ☐ 4. Kerala

**Q.24** Who is the Union Minister of Civil Aviation in Government of India? (As of March, 2024).

- Ans
- ☐ 1. G Kishan Reddy
  - ☐ 2. Raj Kumar Singh
  - ☒ 3. Jyotiraditya M. Scindia
  - ☐ 4. Kiren Rijiju

**Q.25** According to Census of India 2011, which district in India has the lowest literacy rate in India?

- Ans
- ☐ 1. Aizwal
  - ☒ 2. Alirajpur
  - ☐ 3. Rampur
  - ☐ 4. Madhubani