

## Combined Higher Secondary Level Examination 2024 Tier I

Venue Name	
Exam Date	10/07/2024
Exam Time	5:15 PM - 6:15 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.

Mathematics help/ in developing/ the logical mindset /of students.

Ans ☒ 1. Mathematics help

☒ 2. of students

☒ 3. in developing

☒ 4. the logical mindset

**Q.2** Parts of the following sentence have been given as options. Select the option that contains an error.

The chief guest gave out prizes to the meritorious students of the school.

Ans ☒ 1. gave out prizes

☒ 2. of the school.

☒ 3. The chief guest

☒ 4. to the meritorious students

**Q.3** Select the option with the correct use of article(s).

Ans ☒ 1. William Wordsworth was a romantic poet. He did things in an unusual manner.

☒ 2. William Wordsworth was a romantic poet. He did things in a unusual manner.

☒ 3. William Wordsworth was the romantic poet. He did things in a unusual manner.

☒ 4. William Wordsworth was romantic poet. He did things in an unusual manner.

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

The manager noticed / that Pragya / was first to reach / the office on Saturday.

Ans ☒ 1. that Pragya

☒ 2. was first to reach

☒ 3. The manager noticed

☒ 4. the office on Saturday.

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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.

Water is 1. \_\_\_\_\_ for life and for good health. Not only is it necessary for us to be able to meet our daily needs but safe drinking water can 2. \_\_\_\_\_ many water-related diseases. India has one of the largest number of cases of 3. \_\_\_\_\_ such as diarrhoea, dysentery, and cholera. Over 1,600 Indians, most of them children below the age of five, 4. \_\_\_\_\_ die every day because of water-related diseases. These deaths can be prevented if people have 5. \_\_\_\_\_ to safe drinking water.

**SubQuestion No : 5**

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

- Ans**
- ☒ 1. insistent
  - ☒ 2. intrinsic
  - ☒ 3. essential
  - ☒ 4. primary

**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.

Water is 1. \_\_\_\_\_ for life and for good health. Not only is it necessary for us to be able to meet our daily needs but safe drinking water can 2. \_\_\_\_\_ many water-related diseases. India has one of the largest number of cases of 3. \_\_\_\_\_ such as diarrhoea, dysentery, and cholera. Over 1,600 Indians, most of them children below the age of five, 4. \_\_\_\_\_ die every day because of water-related diseases. These deaths can be prevented if people have 5. \_\_\_\_\_ to safe drinking water.

**SubQuestion No : 6**

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

- Ans**
- ☒ 1. prevent
  - ☒ 2. forbid
  - ☒ 3. hamper
  - ☒ 4. restrain

**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.

Water is 1. \_\_\_\_\_ for life and for good health. Not only is it necessary for us to be able to meet our daily needs but safe drinking water can 2. \_\_\_\_\_ many water-related diseases. India has one of the largest number of cases of 3. \_\_\_\_\_ such as diarrhoea, dysentery, and cholera. Over 1,600 Indians, most of them children below the age of five, 4. \_\_\_\_\_ die every day because of water-related diseases. These deaths can be prevented if people have 5. \_\_\_\_\_ to safe drinking water.

**SubQuestion No : 7**

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

- Ans**
- ☒ 1. diseases
  - ☒ 2. distress
  - ☒ 3. laments
  - ☒ 4. sufferings

**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.

Water is 1. \_\_\_\_\_ for life and for good health. Not only is it necessary for us to be able to meet our daily needs but safe drinking water can 2. \_\_\_\_\_ many water-related diseases. India has one of the largest number of cases of 3. \_\_\_\_\_ such as diarrhoea, dysentery, and cholera. Over 1,600 Indians, most of them children below the age of five, 4. \_\_\_\_\_ die every day because of water-related diseases. These deaths can be prevented if people have 5. \_\_\_\_\_ to safe drinking water.

**SubQuestion No : 8**

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

- Ans ☒ 1. distinctly  
☒ 2. assuredly  
☒ 3. reportedly  
☒ 4. ostensibly

**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.

Water is 1. \_\_\_\_\_ for life and for good health. Not only is it necessary for us to be able to meet our daily needs but safe drinking water can 2. \_\_\_\_\_ many water-related diseases. India has one of the largest number of cases of 3. \_\_\_\_\_ such as diarrhoea, dysentery, and cholera. Over 1,600 Indians, most of them children below the age of five, 4. \_\_\_\_\_ die every day because of water-related diseases. These deaths can be prevented if people have 5. \_\_\_\_\_ to safe drinking water.

**SubQuestion No : 9**

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

- Ans ☒ 1. accession  
☒ 2. entrance  
☒ 3. providence  
☒ 4. access

**Q.10** Select the most appropriate meaning of the given idiom.  
 Going through a sticky patch

- Ans ☒ 1. To experience a bad period in life  
☒ 2. To walk on a muddy road  
☒ 3. To feel sad  
☒ 4. Try to paste something unsuccessfully

**Q.11** Select the most appropriate option that can substitute the underlined segment in the following sentence.  
 This serum contains ingredients enabling the hair to grow.

- Ans ☒ 1. for growth hair  
☒ 2. the enable grow hair  
☒ 3. for growing many hair  
☒ 4. that enable the hair to grow

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

- Ans ☒ 1. Tall  
☒ 2. Heavy  
☒ 3. Tiny  
☒ 4. Formidable

**Q.13** Select the most appropriate ANTONYM of the word given in brackets to fill in the blank.

You can't stop the \_\_\_\_\_ (outflow) of current.

- Ans ☒ 1. torrent  
☒ 2. influx  
☒ 3. income  
☒ 4. deluge

**Q.14** Select the most appropriate ANTONYM of the given word.

Impulsive

- Ans ☒ 1. Passive  
☒ 2. Hasty  
☒ 3. Aggressive  
☒ 4. Cautious

**Q.15** Select the most appropriate option that can substitute the underlined word in the given sentence.

She argued against the unnecessary split in the committee.

- Ans ☒ 1. combination  
☒ 2. mix  
☒ 3. division  
☒ 4. blend

**Q.16** Select the most appropriate option that can substitute the underlined segment in the following sentence.

Had you been to Dubai, I would also go with you.

- Ans ☒ 1. I shall be gone  
☒ 2. I will have went  
☒ 3. I would have gone  
☒ 4. I would has also gone

**Q.17** Select the most appropriate synonym of the given word.

Evasive

- Ans ☒ 1. Cohesive  
☒ 2. Ambiguous  
☒ 3. Abrasive  
☒ 4. Accessible

**Q.18** Select the most appropriate ANTONYM of the word 'Commence' from the given sentence.

Let's put an end to this discussion about voodoo and instead talk about something amusing.

- Ans ☒ 1. discussion  
☒ 2. amusing  
☒ 3. end  
☒ 4. voodoo

**Q.19** Identify the incorrectly spelt word and select its correct spelling.  
There are a number of artists currently creating unique, collectble teapots.

Ans ☒ 1. collectable

☒ 2. currntly

☒ 3. collectibile

☒ 4. currantly

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

Tom is trying to \_\_\_\_\_ as soon as possible.

Ans ☒ 1. get a job

☒ 2. learn a job

☒ 3. receive a job

☒ 4. experience a job

**Q.21** Select the word segment from the options that can substitute the bracketed word segment meaningfully.

Telangana artists (are know for the amazing bronze castings).

Ans ☒ 1. Have been knew to the amazing bronze castings

☒ 2. Are known for their amazing bronze castings

☒ 3. Is known to the amazing bronze castings

☒ 4. Have to know the amazing bronze castings

**Q.22** Select the most appropriate ANTONYM of the underlined word in the given sentence.  
His feeble opponent was no match to him and ultimately he won the challenge.

Ans ☒ 1. Major

☒ 2. Strong

☒ 3. Mystic

☒ 4. Intelligent

**Q.23** Select the INCORRECTLY spelt word.

Ans ☒ 1. Warranty

☒ 2. Committee

☒ 3. Dilemma

☒ 4. Neice

**Q.24** Select the most appropriate meaning of the given idiom.  
Costing an arm and a leg

Ans ☒ 1. Very entertaining and jovial

☒ 2. Very costly and luxurious

☒ 3. Very attractive and cheap

☒ 4. Very rough and tough

**Q.25** 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'.

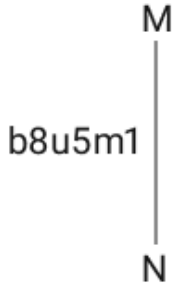
It has been found that the trees are being destroyed by a moth.

- Ans ☒ 1. is being destroyed  
☒ 2. have been destroying  
☒ 3. No substitution required  
☒ 4. have destroyed

**Q.1** In a certain code language, 'RIVER' is coded as 'SJWFS' and 'SYSTEM' is coded as 'TZTUFN'. How is 'PACK' coded in that language?

- Ans ☒ 1. QBDL  
☒ 2. RBDL  
☒ 3. RCEK  
☒ 4. QCEL

**Q.2** Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans ☒ 1. 1m2u8d  
☒ 2. b8u5m1  
☒ 3. 1w5u8d  
☒ 4. p8u2m1

**Q.3** Which two numbers should be interchanged to make the given equation correct?

$$35 + (25 \times 3 - 45) \div 2 + (15 \times 4) = 125$$

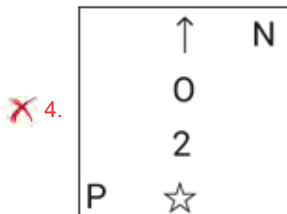
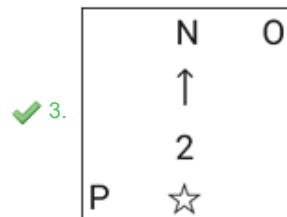
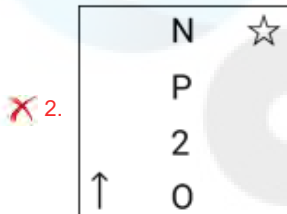
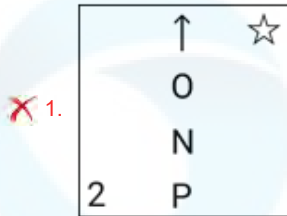
(NOTE: Numbers must be interchanged and not the constituent digits e.g. if 2 and 3 are to be interchanged in the equation  $43 \times 3 + 4 \div 2$ , then interchanged equation is  $43 \times 2 + 4 \div 3$ )

- Ans ☒ 1. 15 and 25  
☒ 2. 35 and 45  
☒ 3. 25 and 35  
☒ 4. 2 and 15

**Q.4** Which figure should replace the question mark (?) if the following figure series were to be continued?

O	□	S	O	↑	S	O	↑	
S		↑		O		N		
↑		2		N		P		
N	2	P	N	2	P	☆	2	?

**Ans**



**Q.5** 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)

- 1) FGNOP
- 2) IJQRS
- 3) OPWXY
- 4) RSXYZ

**Ans** ☒ 1. RSXYZ

☒ 2. IJQRS

☒ 3. OPWXY

☒ 4. FGNOP

**Q.6** If 17 December 2012 was Monday, then what was the day of the week on 18 November 2020?

**Ans** ☒ 1. Tuesday

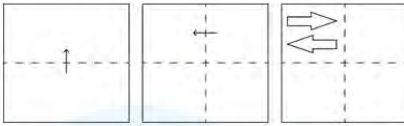
☒ 2. Wednesday

☒ 3. Thursday

☒ 4. Sunday

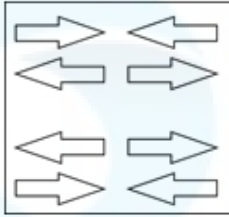


**Q.7** A square sheet of paper is folded along the dotted line successively along the directions shown and is then punched in the last. How would the paper look when unfolded?

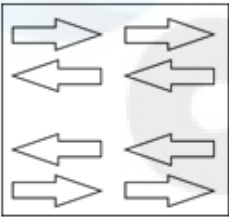


**Ans**

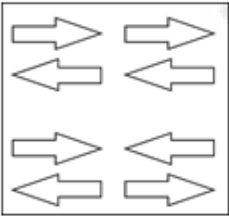
✓ 1.



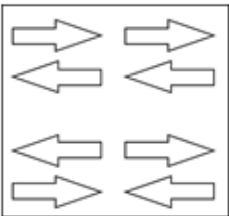
✗ 2.



✗ 3.



✗ 4.



**Q.8** 102 is related to 34 following a certain logic. Following the same logic, 171 is related to 57. To which of the following is 237 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. 73

✗ 2. 77

✓ 3. 79

✗ 4. 71

**Q.9** 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 leaves are trees.

All stones are grain.

Some grains are leaves.

Conclusion (I): All grains are trees.

Conclusion (II): Some leaves are stones.

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

**Q.10** What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?  
 $92 \times 2 - 13 + 2 \div 6 = ?$

- Ans
- ☒ 1. 46
  - ☒ 2. 48
  - ☒ 3. 47
  - ☒ 4. 49

**Q.11** Select the term from among the given options that can replace the question mark (?) in the following series based on the English alphabetical order.

XYZ, YAC, ?, AEI, BGL, CIO

- Ans
- ☒ 1. ZCF
  - ☒ 2. MOP
  - ☒ 3. ZAB
  - ☒ 4. YZL

**Q.12** 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)

(32, 35, 201)

(26, 29, 165)

- Ans
- ☒ 1. (34, 37, 203)
  - ☒ 2. (39, 42, 256)
  - ☒ 3. (23, 26, 147)
  - ☒ 4. (28, 31, 197)

**Q.13** What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?  
 $24 \div 10 + 68 \times 2 - 16 = ?$

- Ans
- ☒ 1. 222
  - ☒ 2. 242
  - ☒ 3. 252
  - ☒ 4. 232

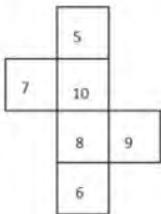
**Q.14** If 27 September 2001 was a Thursday, then what was the day of the week on 22 October 2009?

- Ans**
- ☒ 1. Sunday
  - ☒ 2. Friday
  - ☒ 3. Wednesday
  - ☒ 4. Thursday

**Q.15** What should come in place of the question mark (?) in the given series based on the English alphabetical order?  
DGB, GKG, JOL, MSQ, ?

- Ans**
- ☒ 1. PWV
  - ☒ 2. QWU
  - ☒ 3. PVT
  - ☒ 4. RXV

**Q.16** What would be the number on the opposite side of '7' if the given sheet is folded to form a cube?



- Ans**
- ☒ 1. 6
  - ☒ 2. 8
  - ☒ 3. 5
  - ☒ 4. 9

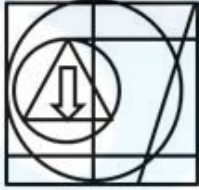
**Q.17** Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).



(X)

Ans

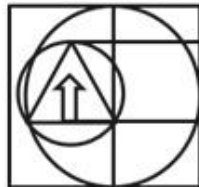
☒ 1.



☒ 2.



☒ 3.



☒ 4.



**Q.18** In a certain code language,  
 'M & N' means 'M is the wife of N',  
 'M @ N' means 'M is the son of N',  
 'M \$ N' means 'M is the mother of N'.  
 Based on the above, how is R related to O if 'N \$ O @ P @ Q & R'?

Ans ☒ 1. Father's brother

☒ 2. Mother's brother

☒ 3. Mother's father

☒ 4. Father's father

**Q.19** QTWA is related to ZCFJ in a certain way based on the English alphabetical order. In the same way, MKBZ is related to VTKL. To which of the following is EYCM related, following the same logic?

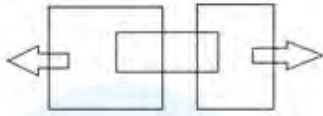
Ans ☒ 1. NVHL

☒ 2. NLVH

☒ 3. NHLV

☒ 4. NLHV

Q.20 How many rectangles are there in the following figure?



- Ans
- ☒ 1. 7
  - ☒ 2. 10
  - ☒ 3. 11
  - ☒ 4. 8

Q.21 What should come in place of ? in the given series?

33 32 35 34 37 ?

- Ans
- ☒ 1. 40
  - ☒ 2. 38
  - ☒ 3. 37
  - ☒ 4. 36

Q.22 In a certain code language, 'try something new' is coded as 'db kl jk' and 'something hurt him' is coded as 'db pt uk'. How is 'something' coded in that language?

- Ans
- ☒ 1. jk
  - ☒ 2. db
  - ☒ 3. uk
  - ☒ 4. kl

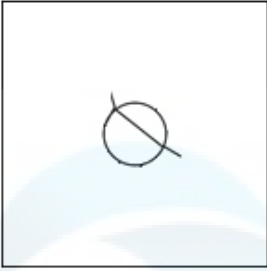
Q.23 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Lend : Borrow

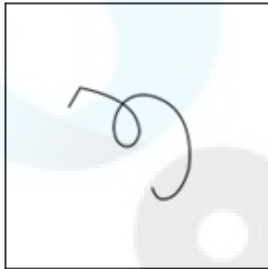
- Ans
- ☒ 1. Neat : Tidy
  - ☒ 2. Silent : Quiet
  - ☒ 3. Cruel : Kind
  - ☒ 4. Cold : Frigid

**Q.24** Select the option in which the given figure is embedded (rotation is NOT allowed).

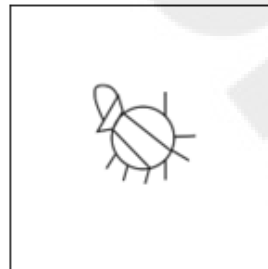


**Ans**

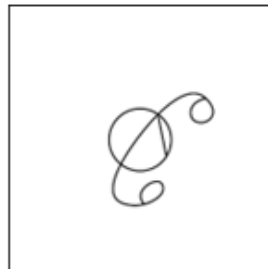
☒ 1.



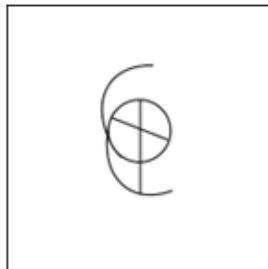
☒ 2.



☒ 3.



☒ 4.



**Q.25** What will come in the place of the question mark (?) in the following equation, if '+' and '×' are interchanged and '-' and '÷' are interchanged?

$$123 - 41 \times 14 + 2 \div 7 = ?$$

**Ans** ☒ 1. 24

☒ 2. 20

☒ 3. 22

☒ 4. 23

**Q.1** In  $\triangle ABC$ , if  $AB = \sqrt{3}$  units,  $BC = 1$  unit and  $AC = 2$  units, then  $\angle ACB$  is equal to:

- Ans**
- ☐ 1.  $30^\circ$
  - ☐ 2.  $90^\circ$
  - ☒ 3.  $60^\circ$
  - ☐ 4.  $45^\circ$

**Q.2** In an isosceles triangle, the vertex angle is four times the sum of the base angles. The measure of the square root of the vertex angle is:

- Ans**
- ☐ 1.  $10^\circ$
  - ☒ 2.  $12^\circ$
  - ☐ 3.  $18^\circ$
  - ☐ 4.  $16^\circ$

**Q.3** Two numbers are respectively 61% and 35% less than a third number. The first number is what percentage of the second number?

- Ans**
- ☐ 1. 48%
  - ☐ 2. 24%
  - ☒ 3. 60%
  - ☐ 4. 30%

**Q.4** The details of books of 6 subjects on the first floor of the college library are given in the following table.

	English	French	Computers	Circuit Theory	Maths	Graph Theory
No. of books	7532	308	14,308	9948	17,462	642

The ratio of Maths and Computers to Circuit Theory and Graph Theory is:

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

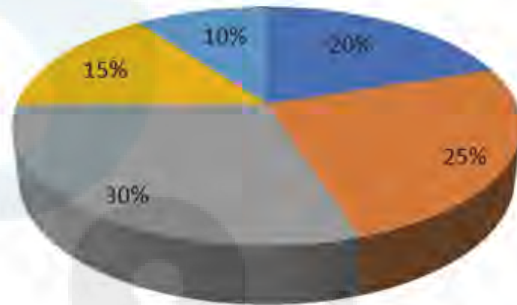
**Q.5** A bucket contains a mixture of milk and water in the proportion of 7: 5. If 9 litres of milk is replaced by water, then the ratio becomes 7:9. How much milk was there in the bucket initially?

- Ans**
- ☒ 1. 36 litres
  - ☐ 2. 30 litres
  - ☐ 3. 25 litres
  - ☐ 4. 35 litres

- Q.6** The given pie-diagram shows the expenditure incurred on the preparation of a book by a publisher, under various heads. Study the pie-diagram and answer the question that follows.

Various Expenditures (in percentage) incurred in Publishing a Book

■ A-Paper ■ B-Printing ■ C-Binding ■ D-Royalty ■ E-Miscellaneous



Which two expenditures together will form an angle of  $108^\circ$  at the centre of the pie-diagram?

- Ans** ☒ 1. A and E  
☒ 2. B and E  
☒ 3. A and D  
☒ 4. D and E

- Q.7** For what value of  $k$  ( $k > 0$ ) will the lines  $5x + ky - 2 = 0$  and  $(k + 1)x + 4y + 7 = 0$  be parallel?

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

- Q.8** P completes a work in 12 days and Q in 24 days. In how many days P and Q working together can complete the same work?

- Ans** ☒ 1. 16 days  
☒ 2. 12 days  
☒ 3. 6 days  
☒ 4. 8 days

- Q.9** If ' $\div$ ' means ' $\times$ ', ' $\times$ ' means ' $\div$ ', ' $+$ ' means ' $-$ ', ' $-$ ' means ' $+$ ', then  $47 \div (10 \times 5) + (4 - 5) - 6$  is:

- Ans** ☒ 1. 100  
☒ 2. 59  
☒ 3. 79  
☒ 4. 91



**Q.10** Two chords AB and CD of a circle are produced to intersect each other at a point P outside the circle. If AB = 7 cm, BP = 4.2 cm and PD = 2.8 cm, then the length of CD is:

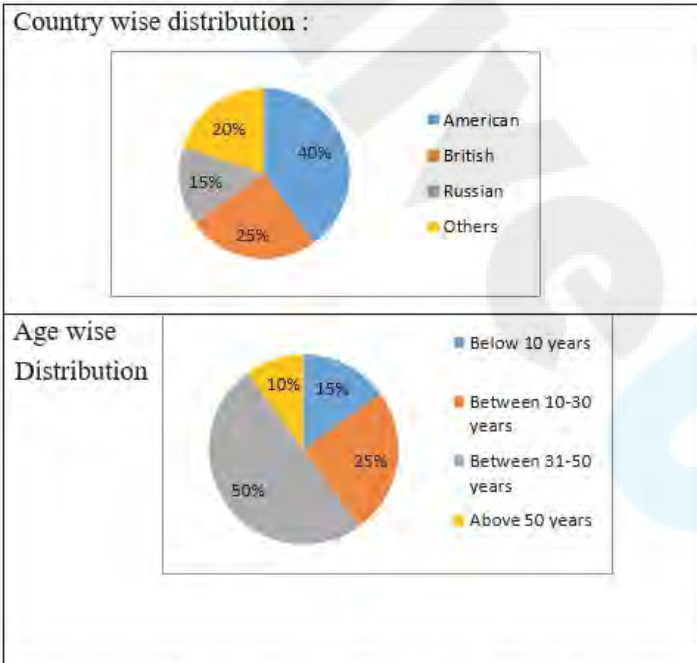
- Ans ☒ 1. 16 cm  
☒ 2. 18 cm  
☒ 3. 14 cm  
☒ 4. 11 cm

**Q.11** A number is divisible by 11 if and only if the difference of the sum of the digits in the even and odd positions in the number is:

- Ans ☒ 1. 0 or multiple of 11  
☒ 2. 11  
☒ 3. 0  
☒ 4. 1

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

The pie-charts show the characteristics of foreign tourists visiting India during a given year.



If in a given year, 2,50,000 tourists visited India and the age wise distribution of data applies to all the countries, then what is the ratio of American tourists below 10 years to the other tourists above 50 years?

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

**Q.13**  $\triangle ABC$  and  $\triangle PQR$  are similar. The areas of these two triangles are 289 sq.cm and 576 sq.cm, respectively. If PR = 12 cm, then AC = ?

- Ans ☒ 1. 7.25 cm  
☒ 2. 8.5 cm  
☒ 3. 12 cm  
☒ 4. 6 cm

**Q.14** Ramu invested some money at 8% simple interest per annum, and it was grown up to ₹820 in 8 years. If the same sum was invested at 20% simple interest per annum for a period of 10 years, find the amount.

- Ans
- ☐ 1. ₹1,200
  - ☐ 2. ₹1,320
  - ☐ 3. ₹1,000
  - ☒ 4. ₹1,500

**Q.15** If the surface areas of two spheres are in the ratio of 49 : 81, then find the ratio of their volumes.

- Ans
- ☐ 1. 216 : 512
  - ☒ 2. 343 : 729
  - ☐ 3. 27 : 64
  - ☐ 4. 125 : 512

**Q.16** A solid metallic cube having surface area of  $54 \text{ cm}^2$  is melted to form smaller cubes of surface area  $\frac{8}{12} \text{ cm}^2$  each. Find the number of smaller cubes.

- Ans
- ☐ 1. 512
  - ☐ 2. 343
  - ☐ 3. 216
  - ☒ 4. 729

**Q.17** In an election between two candidates, 15% of the votes were invalid and one candidate got 52% of the total valid votes. If the total number of votes was 8000, what was the number of valid votes that the other candidate got?

- Ans
- ☒ 1. 3264
  - ☐ 2. 6800
  - ☐ 3. 3840
  - ☐ 4. 3536

**Q.18** The following table gives the percentage of marks obtained by six students in five different subjects in an examination.

The numbers in the brackets give the maximum marks in each subject.

Student's Name	Subjects (Maximum marks)				
	Maths(150)	English(130)	Hindi(120)	Physics(100)	Chemistry(60)
Aanya	90	100	90	90	80
Aarav	100	80	90	70	70
Lavi	90	90	80	60	50
Monika	80	70	100	50	100
Devvansh	50	60	100	100	90
Tanmay	60	80	70	70	80

What are the average marks obtained by all the six students in Hindi?

- Ans**
- ☒ 1. 127
  - ☒ 2. 106
  - ☒ 3. 610
  - ☒ 4. 172

**Q.19** If the surface area of the sphere is  $616 \text{ cm}^2$ , then the radius of the sphere is equal to:

- Ans**
- ☒ 1. 14.0cm
  - ☒ 2. 3.5cm
  - ☒ 3. 18.0cm
  - ☒ 4. 7.0cm

**Q.20** A man walking at the speed of 4 km/h covers a certain distance in 6 hours and 15 minutes. If he covers the same distance by cycle in 5 hours and 10 minutes, then the speed of the cycle in km/h is:

- Ans**
- ☒ 1.  $4\frac{26}{31}$
  - ☒ 2.  $3\frac{11}{31}$
  - ☒ 3.  $2\frac{9}{31}$
  - ☒ 4.  $3\frac{21}{31}$

**Q.21** When  $2^{256}$  is divided by 17, the remainder would be:

- Ans**
- ☒ 1. 2
  - ☒ 2. 0
  - ☒ 3. 1
  - ☒ 4. 5

Q.22 Evaluate  $(9\sin \theta + 2 \cos \theta) / (9\sin \theta - 2\cos \theta)$ , if  $3 \tan \theta = 4$ .

- Ans
- ☒ 1.  $\frac{9}{7}$
  - ☒ 2.  $\frac{5}{7}$
  - ☒ 3.  $\frac{6}{5}$
  - ☒ 4.  $\frac{7}{5}$

Q.23 A costs thrice as much as B. A is sold at a loss of 10%, and B is sold at  $\frac{5}{4}$  of its own price. If the selling price of A is ₹5,800 more than the selling price of B, then the cost price of A is:

- Ans
- ☒ 1. ₹12,000
  - ☒ 2. ₹9,600
  - ☒ 3. ₹15,000
  - ☒ 4. ₹4,000

Q.24 If the average weight of 40 apples is 33 kg and that of 32 apples is 60 kg, then the average weight (in kg) of all the apples is:

- Ans
- ☒ 1. 46.5
  - ☒ 2. 45.2
  - ☒ 3. 44
  - ☒ 4. 45

Q.25 In an election between two candidates, Ananth and Aravind, Ananth got 55% of the total valid votes, and 20% of the votes were invalid. If the total number of votes was 30,000, find the number of valid votes that Aravind got.

- Ans
- ☒ 1. 13200
  - ☒ 2. 24000
  - ☒ 3. 1080
  - ☒ 4. 10800

Q.1 Where is the Kailasa temple built by Rashtrakutas located?

- Ans
- ☒ 1. Amravati
  - ☒ 2. Hampi
  - ☒ 3. Ellora
  - ☒ 4. Kanchi

Q.2 The Salal Project, also called the Salal Hydroelectric Power Station, is on which river?

- Ans
- ☒ 1. Chenab
  - ☒ 2. Krishna
  - ☒ 3. Ganga
  - ☒ 4. Ravi

**Q.3** Where was the 36<sup>th</sup> National Games of India held in the year 2022?

- Ans ☒ 1. Goa  
☒ 2. Kerala  
☒ 3. Gujarat  
☒ 4. Delhi

**Q.4** In which of the following sports/games is the attacking player known as a 'raider'?

- Ans ☒ 1. Hockey  
☒ 2. Kabaddi  
☒ 3. Tennis  
☒ 4. Badminton

**Q.5** Folk music sung on the birth of a child in some Indian states like Bihar, Uttar Pradesh, etc. is called \_\_\_\_\_.

- Ans ☒ 1. kohbar  
☒ 2. banna  
☒ 3. sohar  
☒ 4. gari

**Q.6** Kalbelia dance, also known as the 'Sapera Dance', is the folk dance of \_\_\_\_\_.

- Ans ☒ 1. Rajasthan  
☒ 2. Gujarat  
☒ 3. Uttar Pradesh  
☒ 4. Madhya Pradesh

**Q.7** The country's infrastructure vision for FY-2025 and the first exercise to be conducted in India is named as \_\_\_\_\_.

- Ans ☒ 1. National Infrastructure Pipeline  
☒ 2. National Infrastructure Plan  
☒ 3. National Infrastructure Planning  
☒ 4. National Infrastructure Projects

**Q.8** What is the literacy rate of males in India as per the report published in the National Survey of India-2022?

- Ans ☒ 1. 81.2%  
☒ 2. 83.4%  
☒ 3. 86.3%  
☒ 4. 84.7%

**Q.9** Which is the only surviving specimen of the ancient Sanskrit theatre recognised by UNESCO as a Masterpiece of the Oral and Intangible Heritage of Humanity?

- Ans ☒ 1. Bhavai  
☒ 2. Kutiyattam  
☒ 3. Kathakali  
☒ 4. Yakshagana

**Q.10** Which of the following is NOT mentioned in fundamental duties provided under Indian Constitution?

- Ans ☒ 1. To safeguard public property  
☒ 2. To develop scientific temper  
☒ 3. To join Defence forces  
☒ 4. To respect the national flag

**Q.11** In which of the following plants do roots arise from parts of a plant other than the radicle?

- Ans ☒ 1. Maize  
☒ 2. Mustard plant  
☒ 3. Monstera  
☒ 4. Turnip

**Q.12** In 1835, who developed the process of applying a thin layer of metallic silver to one side of a clear glass pane and created the first mirror?

- Ans ☒ 1. CV Raman  
☒ 2. CH Townes  
☒ 3. Victor Francis Hess  
☒ 4. Justus von Liebig

**Q.13** International Kite Festival is a popular cultural festival of which state?

- Ans ☒ 1. Goa  
☒ 2. Manipur  
☒ 3. Gujarat  
☒ 4. Chhattisgarh

**Q.14** Which of the following statements is correct?

- Ans ☒ 1. The size of Jupiter and Mars is similar.  
☒ 2. The size of Earth and Venus is almost similar.  
☒ 3. The density of Saturn is similar to that of Earth.  
☒ 4. Mars is the warmest planet.

**Q.15** Which of the following books was unveiled by the Union Minister Giriraj Singh in year 2022?

- Ans ☒ 1. Pandemic disruptions and Odisha's lessons in governance  
☒ 2. Heartfelt: The legacy of faith  
☒ 3. Modi @20: Dreams meet delivery  
☒ 4. Agenda for Members of Panchayati Raj Institutions for Rural Development

**Q.16** Suppose a mine worker asks his son, aged 9 years, to help him in his work instead of going to school. Which Article of the Constitution of India will be violated in this case?

- Ans ☒ 1. Article 18  
☒ 2. Article 29  
☒ 3. Article 20  
☒ 4. Article 24

**Q.17 Which of the following statements accurately describes application software?**

- Ans** ☒ 1. Application software is designed to perform specific tasks or functions to meet the user's needs.
- ☐ 2. Application software is used only by software developers and does not impact regular users.
- ☐ 3. Application software refers to the operating system that provides a user-friendly interface to interact with the computer.
- ☐ 4. Application software is responsible for managing and controlling computer hardware components.

**Q.18** In March 2023, the Government of India announced the set up of how many PM MITRA (Pradhan Mantri Mega Integrated Textile Region and Apparel) parks for the textile industry?

- Ans** ☐ 1. 2
- ☐ 2. 5
- ☒ 3. 7
- ☐ 4. 9

**Q.19** On 12 February 2023, the President of India appointed the Governor of states. Which of the following is NOT correctly matched?

- Ans** ☐ 1. Shiv Pratap Shukla – Himachal Pradesh
- ☐ 2. Phagu Chauhan – Meghalaya
- ☐ 3. Ramesh Baish – Maharashtra
- ☒ 4. S Abdul Nazeer – Bihar

**Q.20** What is Miyan ki Todi in Hindustani music?

- Ans** ☐ 1. Kirtan
- ☐ 2. Tanam
- ☐ 3. Chhand
- ☒ 4. Raag

**Q.21** 'The Life Divine', 'The Synthesis of Yoga' and 'Savitri' are the popular works of which of the following extremist freedom fighters of India?

- Ans** ☐ 1. Lala Lajpat Rai
- ☐ 2. Bipin Chandra Pal
- ☒ 3. Aurobindo Ghosh
- ☐ 4. Bal Gangadhar Tilak

**Q.22** In MS Word, which option allows you to quickly remove all formatting from selected text while retaining the underlying text content?

- Ans** ☒ 1. Clear Formatting
- ☐ 2. Paste Special
- ☐ 3. Format Painter
- ☐ 4. Cut

**Q.23** The 10<sup>th</sup> Five-Year Plan aimed at reducing poverty by:

- Ans** ☐ 1. 8%
- ☐ 2. 9%
- ☐ 3. 2%
- ☒ 4. 5%

**Q.24** The velocity of circulation of money will be higher when the \_\_\_\_\_ is less than the requirements of the economy.

**Ans** ☒ 1. demand for money

☐ 2. supply of money

☐ 3. velocity of money

☐ 4. elasticity of money

**Q.25** When is National Javelin Day celebrated in India?

**Ans** ☐ 1. 12<sup>th</sup> January

☒ 2. 7<sup>th</sup> August

☐ 3. 6<sup>th</sup> August

☐ 4. 29<sup>th</sup> August