

## Combined Higher Secondary Level Examination 2024 Tier I

Venue Name	
Exam Date	03/07/2024
Exam Time	2:30 PM - 3:30 PM
Subject	CHSL Exam 2024 Tier I

**Q.1** The following sentence has been split into four segments. Identify the segment that contains an **INCORRECT** preposition.  
Please remember to take / your notice to the reception area / if you want it to be displayed / upon the bulletin board.

- Ans** ☒ 1. upon the bulletin board  
☒ 2. if you want it to be displayed  
☒ 3. your notice to the reception area  
☒ 4. Please remember to take

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

Don't go / outside / because it is / raining heavy.

- Ans** ☒ 1. raining heavy.  
☒ 2. Don't go  
☒ 3. outside  
☒ 4. because it is

**Q.3** Parts of the following sentence have been given as options. Select the option that contains an error.

Today she said to her friend, "You're the sweetest person I have met ever".

- Ans** ☒ 1. I have met ever".  
☒ 2. her friend, "You're  
☒ 3. Today she said to  
☒ 4. the sweetest person

**Q.4** The given sentence is divided into four segments. Select the option that has the segment with a grammatical error.

The class / teacher was / wounded in / a leg.

- Ans** ☒ 1. The class  
☒ 2. wounded in  
☒ 3. teacher was  
☒ 4. a leg.

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The tuatara, which lives on New Zealand's islands, is affectionately known as Living fossil. It is called that because it is the only (1)\_\_\_\_\_ reptile in a group of reptiles that dates back about 220 million years to the time of the dinosaurs. The colour of the tuatara is grey or olive green. It (2)\_\_\_\_\_ to a length of around 60 cm. The fact that this lizard has three eyes is its most (3)\_\_\_\_\_ feature. The pineal eye is the name given to the cone-shaped third eye. This eye is in a space between the brain and head. It has an eyelid over the third eye, which closes on a horizontal level. The tuatara has teeth that are (4)\_\_\_\_\_ from those of other reptiles. The lower jaw has only one row of teeth, while the upper jaw has two rows. The tuatara is most active at night. It eats the eggs of birds, frogs, rats and insects. A tuatara's average lifespan is less than 77 years, but some species can live up to 100 years. In the spring, the female tuatara lays 8 to 15 eggs. These eggs are (5)\_\_\_\_\_ during summer.

**SubQuestion No : 5**

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

- Ans ☒ 1. life  
☒ 2. being  
☒ 3. living  
☒ 4. entity

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The tuatara, which lives on New Zealand's islands, is affectionately known as Living fossil. It is called that because it is the only (1)\_\_\_\_\_ reptile in a group of reptiles that dates back about 220 million years to the time of the dinosaurs. The colour of the tuatara is grey or olive green. It (2)\_\_\_\_\_ to a length of around 60 cm. The fact that this lizard has three eyes is its most (3)\_\_\_\_\_ feature. The pineal eye is the name given to the cone-shaped third eye. This eye is in a space between the brain and head. It has an eyelid over the third eye, which closes on a horizontal level. The tuatara has teeth that are (4)\_\_\_\_\_ from those of other reptiles. The lower jaw has only one row of teeth, while the upper jaw has two rows. The tuatara is most active at night. It eats the eggs of birds, frogs, rats and insects. A tuatara's average lifespan is less than 77 years, but some species can live up to 100 years. In the spring, the female tuatara lays 8 to 15 eggs. These eggs are (5)\_\_\_\_\_ during summer.

**SubQuestion No : 6**

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

- Ans ☒ 1. creates  
☒ 2. develops  
☒ 3. nourishes  
☒ 4. links

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The tuatara, which lives on New Zealand's islands, is affectionately known as Living fossil. It is called that because it is the only (1)\_\_\_\_\_ reptile in a group of reptiles that dates back about 220 million years to the time of the dinosaurs. The colour of the tuatara is grey or olive green. It (2)\_\_\_\_\_ to a length of around 60 cm. The fact that this lizard has three eyes is its most (3)\_\_\_\_\_ feature. The pineal eye is the name given to the cone-shaped third eye. This eye is in a space between the brain and head. It has an eyelid over the third eye, which closes on a horizontal level. The tuatara has teeth that are (4)\_\_\_\_\_ from those of other reptiles. The lower jaw has only one row of teeth, while the upper jaw has two rows. The tuatara is most active at night. It eats the eggs of birds, frogs, rats and insects. A tuatara's average lifespan is less than 77 years, but some species can live up to 100 years. In the spring, the female tuatara lays 8 to 15 eggs. These eggs are (5)\_\_\_\_\_ during summer.

**SubQuestion No : 7**

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

- Ans ☒ 1. absorbing  
☒ 2. intriguing  
☒ 3. escalating  
☒ 4. diverting

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The tuatara, which lives on New Zealand's islands, is affectionately known as Living fossil. It is called that because it is the only (1)\_\_\_\_\_ reptile in a group of reptiles that dates back about 220 million years to the time of the dinosaurs. The colour of the tuatara is grey or olive green. It (2)\_\_\_\_\_ to a length of around 60 cm. The fact that this lizard has three eyes is its most (3)\_\_\_\_\_ feature. The pineal eye is the name given to the cone-shaped third eye. This eye is in a space between the brain and head. It has an eyelid over the third eye, which closes on a horizontal level. The tuatara has teeth that are (4)\_\_\_\_\_ from those of other reptiles. The lower jaw has only one row of teeth, while the upper jaw has two rows. The tuatara is most active at night. It eats the eggs of birds, frogs, rats and insects. A tuatara's average lifespan is less than 77 years, but some species can live up to 100 years. In the spring, the female tuatara lays 8 to 15 eggs. These eggs are (5)\_\_\_\_\_ during summer.

**SubQuestion No : 8**

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

- Ans ☒ 1. discrete  
☒ 2. sharp  
☒ 3. distinct  
☒ 4. separate

**Comprehension:**

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The tuatara, which lives on New Zealand's islands, is affectionately known as Living fossil. It is called that because it is the only (1)\_\_\_\_\_ reptile in a group of reptiles that dates back about 220 million years to the time of the dinosaurs. The colour of the tuatara is grey or olive green. It (2)\_\_\_\_\_ to a length of around 60 cm. The fact that this lizard has three eyes is its most (3)\_\_\_\_\_ feature. The pineal eye is the name given to the cone-shaped third eye. This eye is in a space between the brain and head. It has an eyelid over the third eye, which closes on a horizontal level. The tuatara has teeth that are (4)\_\_\_\_\_ from those of other reptiles. The lower jaw has only one row of teeth, while the upper jaw has two rows. The tuatara is most active at night. It eats the eggs of birds, frogs, rats and insects. A tuatara's average lifespan is less than 77 years, but some species can live up to 100 years. In the spring, the female tuatara lays 8 to 15 eggs. These eggs are (5)\_\_\_\_\_ during summer.

**SubQuestion No : 9**

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

- Ans ☒ 1. fertilised  
☒ 2. pollinated  
☒ 3. fructified  
☒ 4. germinated

**Q.10** Read the sentence carefully and select the synonym of the underlined word from the given alternatives.

Everyone revered my austere father who was the high priest of the famous Shiva temple.

- Ans ☒ 1. Morose  
☒ 2. Aged  
☒ 3. Stern  
☒ 4. Composed

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

Little that I knew of the English language was not sufficient to make me an English teacher.

- Ans ☒ 1. The little  
☒ 2. So little  
☒ 3. Very little  
☒ 4. A little

**Q.12** 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'.

He was the fastest between all the contestants.

- Ans ☒ 1. No substitution  
☒ 2. since  
☒ 3. amongst  
☒ 4. from

**Q.13** Select the most appropriate ANTONYM of the underlined word in the following sentence.

You should never visit her without her consent.

- Ans ☒ 1. Knowledge  
☒ 2. Approval  
☒ 3. Refusal  
☒ 4. Permission

**Q.14** Select the most appropriate meaning of the given idiom.

**Best thing since sliced bread**

- Ans ☒ 1. Rated well amongst cooks  
☒ 2. Extremely good, interesting  
☒ 3. Something to be cautious about  
☒ 4. Breaking news

**Q.15** 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 improvement required'.  
 The annual seed festival hosted in Auroville promote sharing of traditional knowledge and sustainable farming practices.

- Ans ☒ 1. promotes sharing of traditional  
☒ 2. promotes sharing of traditionally  
☒ 3. promotes sharing of tradition  
☒ 4. No improvement required

**Q.16** Select the most appropriate **ANTONYM** of the given word.  
**Sacred**

- Ans ☒ 1. Profane  
☒ 2. Grave  
☒ 3. Narrow  
☒ 4. Holy

**Q.17** Select the most appropriate **ANTONYM** of the underlined word in the given sentence.  
 Mr. Stein is a very cold and hard man.

- Ans ☒ 1. Relaxed  
☒ 2. Tolerant  
☒ 3. Clement  
☒ 4. Charitable

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

**Ablaze**

- Ans ☒ 1. Extinguished  
☒ 2. Brazen  
☒ 3. Sharp  
☒ 4. Burning

**Q.19** Select the most appropriate meaning of the given idiom.

**Around the clock**

- Ans ☒ 1. Something that goes on day and night  
☒ 2. Something that is done at night  
☒ 3. Something that is done within one hour  
☒ 4. Something that is time bound

**Q.20** Select the INCORRECTLY spelt word.

Ans ☒ 1. Judgment

☒ 2. Chief

☒ 3. Colleague

☒ 4. Relevant

**Q.21** Select the most appropriate ANTONYM of the underlined word in the following sentence.

My most vivid recollection of that summer is the ocean.

Ans ☒ 1. Eloquent

☒ 2. Vague

☒ 3. Pictorial

☒ 4. Lucid

**Q.22** Select the most appropriate ANTONYM of the given word.  
Alive

Ans ☒ 1. Spry

☒ 2. Dead

☒ 3. Wise

☒ 4. Animated

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

Ans ☒ 1. Magnanimos

☒ 2. Psychology

☒ 3. Fascination

☒ 4. Accompanied

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

There is no place on the bench.

Ans ☒ 1. no room

☒ 2. more place

☒ 3. no life

☒ 4. more space

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

Many developing nations are having a \_\_\_\_\_ economy these days.

Ans ☒ 1. booming

☒ 2. boosting

☒ 3. resounding

☒ 4. ringing

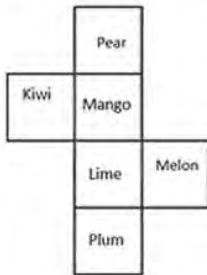
**Q.1** If 'A' stands for '+', 'B' stands for '×', 'C' stands for '÷' and 'D' stands for '−', what will come in place of the question mark (?) in the following equation?  
 $93 \text{ A } 3 \text{ C } 15 \text{ B } 5 \text{ D } 12 = ?$

- Ans**
- ☒ 1. 93
  - ☒ 2. 94
  - ☒ 3. 91
  - ☒ 4. 92

**Q.2** In a certain code language, 'time and money' is coded as 'zoo zee zig' and 'time and tide' is coded as 'zee zoo zaa'. Which word is coded as 'zaa' in that language?

- Ans**
- ☒ 1. time
  - ☒ 2. and
  - ☒ 3. tide
  - ☒ 4. money

**Q.3** What would be the word on the opposite side of 'Pear' if the given sheet is folded to form a cube?



- Ans**
- ☒ 1. Mango
  - ☒ 2. Melon
  - ☒ 3. Kiwi
  - ☒ 4. Lime

**Q.4** If 29 December 1956 was a Saturday, then what was the day of the week on 16 January 1967?

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

**Q.5** What will come in the place of the question mark (?) in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged?  
 $800 \times 16 - 8 \div 12 + 18 = ?$

- Ans**
- ☒ 1. 128
  - ☒ 2. 127
  - ☒ 3. 126
  - ☒ 4. 129

**Q.6** What should come in place of ? in the given series?

8, 15, 29, 57, 113 ?

- Ans
- ☒ 1. 223
  - ☒ 2. 225
  - ☒ 3. 222
  - ☒ 4. 224

**Q.7** Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans
- ☒ 1. s 7 4 d v f
  - ☒ 2. s 7 4 d v f
  - ☒ 3. s 7 4 d v f
  - ☒ 4. s 7 4 d v f

**Q.8** What will come in the place of the question mark (?) in the following equation if '+' and '-' are interchanged and '×' and '÷' are interchanged?  
 $73 - 27 \times 9 + 5 \div 13 = ?$

- Ans
- ☒ 1. 17
  - ☒ 2. 23
  - ☒ 3. 11
  - ☒ 4. 9

**Q.9** 'MANGO' is related to '35' in a certain way based on the English alphabetical order. In the same way, 'CHERRIES' is related to '56'. To which of the following is 'ADMINISTRATION' related, following the same logic?

- Ans
- ☒ 1. 102
  - ☒ 2. 96
  - ☒ 3. 98
  - ☒ 4. 112

**Q.10** PCNZ is related to ALWQ in a certain way based on the English alphabetical order. In the same way, RYLD is related to EHUS. To which of the following is HAXM related, following the same logic?

- Ans
- ☒ 1. NJGI
  - ☒ 2. NJIG
  - ☒ 3. NIGJ
  - ☒ 4. NIJG



**Q.11** Select the option figure in which the given figure is embedded as its part (rotation is NOT allowed).



Ans

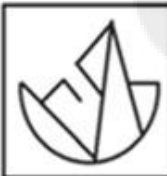
☒ 1.



☒ 2.



☒ 3.



☒ 4.



**Q.12** In a certain code language, 'GCJL' is coded as '14-6-20-24' and 'WTRO' is coded as '46-40-36-30'. What is the code for 'BZKQ' in the given code language?

Ans ☒ 1. 3-51-20-33

☒ 2. 4-52-22-34

☒ 3. 2-52-22-34

☒ 4. 4-52-21-32

**Q.13** What would be the word on the opposite side of 'Run' if the given sheet is folded to form a cube?



Ans ☒ 1. Play

☒ 2. Pray

☒ 3. Fly

☒ 4. Cry

**Q.14** If 26 September 2005 was Monday, then what was the day of the week on 26 September 2017?

- Ans** ☒ 1. Tuesday  
☒ 2. Wednesday  
☒ 3. Saturday  
☒ 4. Sunday

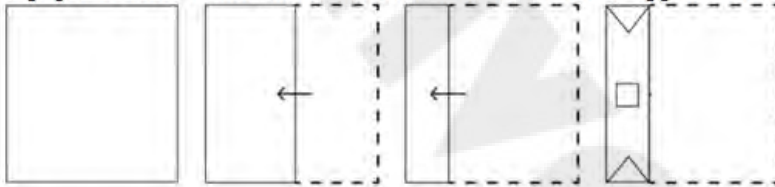
**Q.15** Select the set in which the numbers are related in the same way as are the numbers of the following sets.

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

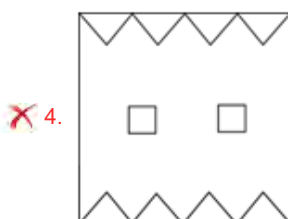
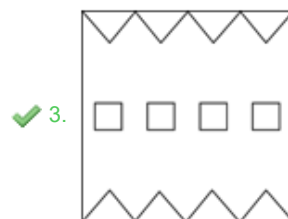
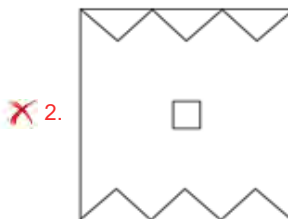
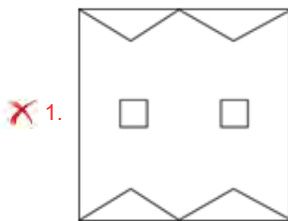
(45, 15, 3)  
 (120, 40, 8)

- Ans** ☒ 1. (175, 55, 11)  
☒ 2. (165, 55, 11)  
☒ 3. (165, 55, 9)  
☒ 4. (165, 54, 11)

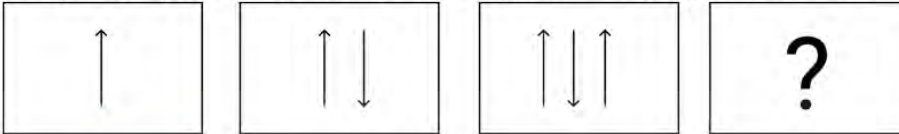
**Q.16** A paper is folded and cut as shown below. How will it appear when unfolded?



**Ans**

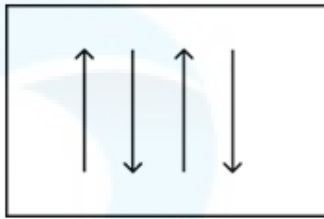


**Q.17** Identify the figure given in the options which when put in place of ? will logically complete the series.

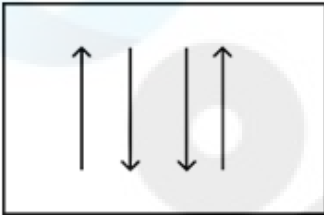


**Ans**

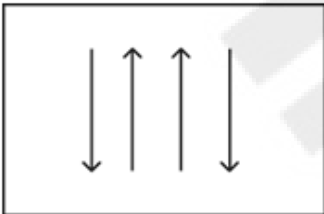
✓ 1.



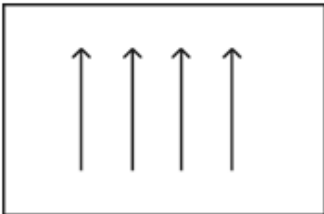
✗ 2.



✗ 3.



✗ 4.



**Q.18** Three of the following four are alike in a certain way and thus form a group. Which is the one that 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. QWD

✓ 2. TZD

✗ 3. EKR

✗ 4. RXE

**Q.19** 765 is related to 876 following a certain logic. Following the same logic, 682 is related to 793.

To which of the following is 587 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/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. 675

✗ 2. 543

✓ 3. 698

✗ 4. 798

Q.20 'A + B' means 'A is B's brother'.

'A - B' means 'A is B's wife'.

'A × B' means 'A is B's father'.

'A ÷ B' means 'A is B's daughter'.

Using operations with the same meaning as given above, which of the following options shows 'M is the mother of O'?

Ans ☒ 1.  $M - N \times O$

☐ 2.  $M - N + O$

☐ 3.  $M \div N + O$

☐ 4.  $M \div N \times O$

Q.21 In this question, three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusion(s) logically follows/follow from the statements.

Statements:

All chairs are sofas.

Some chairs are beds.

No sofa is a table.

Conclusions:

I. Some tables are beds.

II. No table is a chair.

III. Some sofas are beds.

Ans ☐ 1. Both conclusions I and III follow.

☐ 2. Both conclusions I and II follow.

☒ 3. Both conclusions II and III follow.

☐ 4. All conclusions I, II and III follow.

Q.22 What should come in place of ? in the given series based on the English alphabetical order?

QJC ATM KDW UNG ?

Ans ☐ 1. SBA

☐ 2. CWO

☐ 3. BAA

☒ 4. EXQ

Q.23 What should come in place of '?' in the given series?

34 58 106 202 394 ?

Ans ☒ 1. 778

☐ 2. 798

☐ 3. 792

☐ 4. 774

Q.24 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

FQN, CLL, ZGJ, WBH, ?

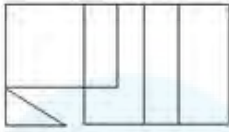
Ans ☐ 1. SVF

☐ 2. SVE

☐ 3. TVE

☒ 4. TWF

Q.25 How many rectangles are there in the following figure?



Ans ☒ 1. 9

☐ 2. 11

☐ 3. 10

☐ 4. 8

Q.1 Which is the greatest ratio among the following?

$$\frac{8}{11}, \frac{4}{5}, \frac{1}{2} \text{ and } \frac{1}{11}$$

Ans ☒ 1.  $\frac{4}{5}$

☐ 2.  $\frac{8}{11}$

☐ 3.  $\frac{1}{2}$

☐ 4.  $\frac{1}{11}$

Q.2 In an election between two candidates, 10% of the registered voters did not cast their vote. The winning candidate got 60% of the total votes cast and defeated the other candidate by 1242 votes. Find the total number of registered voters.

Ans ☐ 1. 6200

☐ 2. 8640

☒ 3. 6900

☐ 4. 9600

Q.3 For a given circle of radius 4 cm, the angle of its sector is  $45^\circ$ . Find the area (in  $\text{cm}^2$ ) of the sector.  
(Use  $\pi = 3.14$ .)

Ans ☐ 1. 7.28

☒ 2. 6.28

☐ 3. 6.18

☐ 4. 7.18

**Q.4** PQ is parallel to SR in a trapezium PQRS. It is given that  $PQ > SR$  and the diagonals PR and QS intersect at O. If  $PO = 3x - 15$ ,  $OQ = x + 9$ ,  $OR = x - 5$  and  $OS = 5$  and  $x$  has two values  $x_1$  and  $x_2$ , then the value of  $(x_1^2 - x_2^2)$  is:

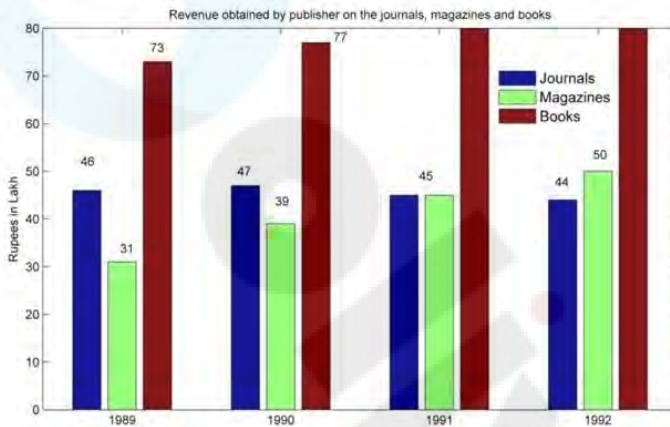
Ans ☒ 1. 15

☒ 2. 11

☒ 3. 13

☒ 4. 19

**Q.5** Answer the following question on the basis of the bar graph given.



In 1991, what percentage of the total revenue came from journals? (Correct up to one decimal place)

Ans ☒ 1. 25.8%

☒ 2. 22.9%

☒ 3. 24.73%

☒ 4. 26.5%

**Q.6** A dealer buys an article listed at ₹100 and get successive discounts of 10% and 20%. He spends 10% of the cost price on transportation. At what price should he sell the article to earn a profit of 15%?

Ans ☒ 1. ₹76.07

☒ 2. ₹89.08

☒ 3. ₹91.08

☒ 4. ₹81.07

**Q.7** If the perimeter of a square is 64 cm, what would be its area?

Ans ☒ 1. 256 cm<sup>2</sup>

☒ 2. 266 cm<sup>2</sup>

☒ 3. 216 cm<sup>2</sup>

☒ 4. 206 cm<sup>2</sup>

**Q.8** A and B can complete a piece of work in 12 days. B and C can complete the same work in 15 days and C and A in 10 days. How many days will A take to complete the work by himself?

**Ans**

☒ 1.  $9\frac{1}{8}$

☒ 2.  $16\frac{1}{7}$

☒ 3.  $17\frac{1}{7}$

☒ 4.  $13\frac{3}{7}$

**Q.9** Simplify the given expression.

$$8 - 5 \div 2^3 \times 3 + (7 \div 7 \times 7) \div 7 + (3 \times 6 \div \frac{1}{3}) \times \frac{1}{3^3}$$

**Ans**

☒ 1.  $\frac{73}{9}$

☒ 2.  $\frac{73}{27}$

☒ 3.  $\frac{73}{21}$

☒ 4.  $\frac{73}{8}$

**Q.10** Solve the following system of linear equations:

$$x + y + z = 15, 2x - y + z = 12 \text{ and } x - y - z = -1$$

**Ans**

☒ 1.  $x = 7, y = 5, z = 1$

☒ 2.  $x = 2, y = 5, z = 3$

☒ 3.  $x = 7, y = 5, z = 3$

☒ 4.  $x = 7, y = 2, z = 3$

**Q.11** If 6, 18, x are sides of a triangle and x is an integer, then the number of possible values of x is:

**Ans**

☒ 1. 14

☒ 2. 15

☒ 3. 13

☒ 4. 11

**Q.12** The following graph shows the sale of few items of a garment company for three months.



What is the percentage of the sale of the least selling item in the three months over the total sale of the company?

- Ans**
- ☐ 1. 28%
  - ☐ 2. 25%
  - ☒ 3. 16%
  - ☐ 4. 20%

**Q.13** If the height of a right circular cone is 24 cm and radius of its base is 10.5 cm, then the volume of right circular cone (in  $\text{cm}^3$ ) is:

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

- Ans**
- ☐ 1. 2727
  - ☒ 2. 2772
  - ☐ 3. 2277
  - ☐ 4. 2237

**Q.14** If the radius of a sphere is increased by 12 percent, then the volume will be increased by approximately:

- Ans**
- ☐ 1. 41.49 percent
  - ☐ 2. 45.49 percent
  - ☒ 3. 40.49 percent
  - ☐ 4. 42.5 percent

**Q.15** The following table represents the number of computers (in thousands) manufactured by four companies during the period 2010 to 2014:

Years	A	B	C	D
2010	240	120	270	280
2011	300	530	490	650
2012	1250	650	430	710
2013	470	320	1180	890
2014	320	1070	550	480

Which company has the minimum average (in thousands) of manufacturing the computers from 2010 to 2014?

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



Q.16  $\frac{3 \cos^2 \theta - 2 \cos \theta}{\sin \theta - 3 \sin^2 \theta}$  is equal to:

- Ans
- ☐ 1.  $\tan^2 \theta$
  - ☐ 2.  $\cot^2 \theta$
  - ☐ 3.  $\tan \theta$
  - ☒ 4.  $\cot \theta$

Q.17 AB and AC are two tangents to a circle having centres at the point X. What will be the measure of  $\angle BAC$ , if  $\angle BXC = 125^\circ$ ?

- Ans
- ☒ 1.  $55^\circ$
  - ☐ 2.  $50^\circ$
  - ☐ 3.  $52^\circ$
  - ☐ 4.  $48^\circ$

Q.18 If the income of P is 40% less than Q, then the combined income of P and Q is how much per cent more than the income of P?

- Ans
- ☐ 1.  $166\frac{1}{3}$
  - ☒ 2.  $166\frac{2}{3}$
  - ☐ 3.  $164\frac{1}{3}$
  - ☐ 4.  $164\frac{2}{3}$

Q.19 12.75% is equivalent to \_\_\_\_\_.

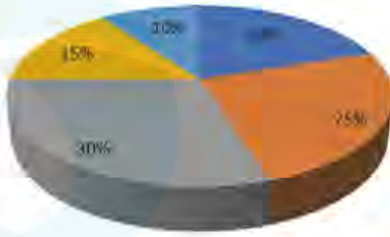
- Ans
- ☐ 1.  $\frac{41}{400}$
  - ☐ 2.  $\frac{17}{200}$
  - ☒ 3.  $\frac{51}{400}$
  - ☐ 4.  $\frac{37}{400}$

Q.20 An amount of ₹50,000 becomes ₹72,000 in 4 years on a simple rate of interest. The rate of interest is \_\_\_\_\_ per annum.

- Ans
- ☐ 1. 12%
  - ☐ 2. 9%
  - ☐ 3. 10%
  - ☒ 4. 11%

- Q.21** 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.

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



Various Expenditures (in percentage) incurred in Publishing a Book

What is the angle of the pie-diagram showing the expenditure incurred on paying royalty?

- Ans** ☒ 1.  $54^\circ$   
☒ 2.  $15^\circ$   
☒ 3.  $24^\circ$   
☒ 4.  $48^\circ$

- Q.22** A seven-digit number 489y5z6 is divisible by 72. Which of the options gives the highest possible product of y and z?

- Ans** ☒ 1. 3  
☒ 2. 42  
☒ 3. 30  
☒ 4. 21

- Q.23** If the average of 50 numbers  $N_1, N_2, \dots, N_{50}$  is M. Then the average of the numbers  $N_1-100, N_2-100, \dots, N_{50}-100$  will be:

- Ans** ☒ 1. 50M  
☒ 2.  $M - 100$   
☒ 3. 100M  
☒ 4.  $M - 50$

- Q.24** By selling 30 metres of cloth a shopkeeper makes a profit equivalent to the selling price of 10 metres of cloth. Find the selling price of 1 metre of cloth when the cost price of 1 metre of cloth is ₹480.

- Ans** ☒ 1. ₹520  
☒ 2. ₹960  
☒ 3. ₹720  
☒ 4. ₹820

- Q.25** In an 800 m race, the ratio of the speeds of two contestants Ankur and Neha is 5 : 6. If Ankur has a head-start of 200 m, then Ankur will win by \_\_\_\_\_.

- Ans** ☒ 1. 76 m  
☒ 2. 69 m  
☒ 3. 80 m  
☒ 4. 89 m

**Q.1 In which state is the Raika tribe found?**

- Ans ☒ 1. Kerala  
☒ 2. Manipur  
☒ 3. West Bengal  
☒ 4. Rajasthan

**Q.2 Which of the following folk music of Chhattisgarh is based on the epic Mahabharata?**

- Ans ☒ 1. Ghumar  
☒ 2. Pandavani  
☒ 3. Paani Haari  
☒ 4. Maand

**Q.3 Which Section of the Representation of People's Act (RPA), 1951 deprives the prisoners of their right to vote?**

- Ans ☒ 1. Section 10 (4)  
☒ 2. Section 72 (5)  
☒ 3. Section 62 (5)  
☒ 4. Section 15 (3)

**Q.4 Where did the indigenous sport 'Kalaripayattu' originate from?**

- Ans ☒ 1. Kerala  
☒ 2. Tamil Nadu  
☒ 3. Goa  
☒ 4. Karnataka

**Q.5 The Green Revolution led to an increase in the agricultural output primarily due to the use of HYV seeds. Here, HYV refers to:**

- Ans ☒ 1. Heat Yielding Variant  
☒ 2. High Yield Variant  
☒ 3. High Yielding Variance  
☒ 4. High Yielding Variety

**Q.6 \_\_\_\_\_ सिखों हार का एक प है।**

- Ans ☒ 1. भैरव  
☒ 2. कल्याण  
☒ 3. खमाज  
☒ 4. होला मोहल्ला

**Q.7 For which discovery did Henri Becquerel receive the Nobel Prize in Physics in 1903?**

- Ans ☒ 1. Radioactive Elements  
☒ 2. Radium Emanation  
☒ 3. Diagnostic Radiography  
☒ 4. Spontaneous Radioactivity

Q.8 Good Friday is related to:

- Ans
- ☒ 1. Sikhism
  - ☒ 2. Christianity
  - ☒ 3. Hinduism
  - ☒ 4. Jainism

Q.9 Which of the following is issued by commercial banks at a discount on face value?

- Ans
- ☒ 1. Commercial papers
  - ☒ 2. Treasury bills
  - ☒ 3. Certificates of deposits
  - ☒ 4. Promissory notes

Q.10 The Deccan Plateau is a \_\_\_\_\_ landmass that lies to the south of the river Narmada.

- Ans
- ☒ 1. rectangular
  - ☒ 2. quadrilateral
  - ☒ 3. triangular
  - ☒ 4. hexagonal

Q.11 Which of the following is the default alignment of text in a Microsoft Word document?

- Ans
- ☒ 1. Right
  - ☒ 2. Center
  - ☒ 3. Left
  - ☒ 4. Justified

Q.12 Which city is referred to as the 'Manchester of India'?

- Ans
- ☒ 1. Kanpur
  - ☒ 2. Kolkata
  - ☒ 3. Ahmedabad
  - ☒ 4. Mumbai

Q.13 The government of which state started the Tansen Samman?

- Ans
- ☒ 1. Uttar Pradesh
  - ☒ 2. Himachal Pradesh
  - ☒ 3. Madhya Pradesh
  - ☒ 4. Arunachal Pradesh

Q.14 The proclamation of which Act by the King of England in 1773 paved the way for the establishment of the Supreme Court at Calcutta?

- Ans
- ☒ 1. Pitt's India Act
  - ☒ 2. Indian Councils Act
  - ☒ 3. Regulating Act
  - ☒ 4. Charter Act

**Q.15** Who developed the technique of preserving the quality of food by raising its temperature to prevent microbial growth in the food?

- Ans ☒ 1. Antonie van Leeuwenhoek  
☒ 2. Joseph Lister  
☒ 3. Robert Koch  
☒ 4. Louis Pasteur

**Q.16** As per the Census-2011, the population growth during the decade remained \_\_\_\_\_.

- Ans ☒ 1. 15.30%  
☒ 2. 14.25%  
☒ 3. 17.64%  
☒ 4. 18.30%

**Q.17** Which of the following statements about the Pala Dynasty of eastern India is INCORRECT?

- Ans ☒ 1. Devapala was the grandson of Gopala.  
☒ 2. Dharmapala founded the Valabhi university.  
☒ 3. The Pala kings were the followers of Buddhism.  
☒ 4. The Pala dynasty was founded by Gopala.

**Q.18** Where was India's first hockey club founded?

- Ans ☒ 1. Madras  
☒ 2. Delhi  
☒ 3. Calcutta  
☒ 4. Shimla

**Q.19** The Maritime Anti-Piracy Act, 2022, received the assent of the President on \_\_\_\_\_.

- Ans ☒ 1. 31 March 2023  
☒ 2. 30 April 2023  
☒ 3. 31 December 2022  
☒ 4. 31 January 2023

**Q.20** Which Article of the Constitution mentions about establishing and maintaining institutions for religious and charitable purposes?

- Ans ☒ 1. Article 28  
☒ 2. Article 29  
☒ 3. Article 30  
☒ 4. Article 26

**Q.21** The term 'banana kick' is associated with which sport?

- Ans ☒ 1. Ice Hockey  
☒ 2. Football  
☒ 3. Boxing  
☒ 4. Hockey

**Q.22 Which of the following is an example of application software?**

- Ans** ☒ 1. A word processor  
☐ 2. A programming language  
☐ 3. A web browser  
☐ 4. An operating system

**Q.23 Ursa Major is a/an:**

- Ans** ☒ 1. constellation  
☐ 2. stellite  
☐ 3. comet  
☐ 4. asteroid

**Q.24 In January 2022, which evacuation mission did the government of India launch to evacuate the Indians stranded in Ukraine?**

- Ans** ☐ 1. Operation Raahat  
☒ 2. Operation Ganga  
☐ 3. Operation Safe Homecoming  
☐ 4. Operation Vande Bharat

**Q.25 In a situation wherein A (female) and B (male) are working in same office, same designation, same nature of work but unequal payment, which of the following Articles of the Constitution will be applicable?**

- Ans** ☐ 1. Article 48A  
☒ 2. Article 39(d)  
☐ 3. Article 21  
☐ 4. Article 18