

## Combined Higher Secondary Level Examination 2024 Tier I

Venue Name	
Exam Date	04/07/2024
Exam Time	5:15 PM - 6:15 PM
Subject	CHSL Exam 2024 Tier I

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

She was singing / beautifully in / the concert hall / last night.

Ans ☒ 1. She was singing

☒ 2. the concert hall

☒ 3. beautifully in

☒ 4. last night.

**Q.2** Identify the error in the following sentence and select the option with the correct use of the phrasal verb.

The police inspector was trying to give out the contradicting stories in the scene of the accident.

Ans ☒ 1. The police inspector was trying to lighten up the contradicting stories in the scene of the accident.

☒ 2. The police inspector was trying to sign up the contradicting stories in the scene of the accident.

☒ 3. The police inspector was trying to sort out the contradicting stories in the scene of the accident.

☒ 4. The police inspector was trying to rush out the contradicting stories in the scene of the accident.

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

I will be study around 7 o'clock.

Ans ☒ 1. around 7 o'clock

☒ 2. will

☒ 3. be study

☒ 4. I

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

My daughter participate / in the dance competition / that is organised every year / by the Lion's Club.

Ans ☒ 1. My daughter participate

☒ 2. by the Lion's Club.

☒ 3. that is organised every year

☒ 4. in the dance competition

**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.

Nutrition experts have researched the bad effects of junk food and have come to the (1)\_\_\_\_\_ that junk food manufacturing companies are fooling the people by (2)\_\_\_\_\_ deceptive advertisements that show junk food as healthy. We must substitute junk food with (3)\_\_\_\_\_ food like fruits and vegetables. So the next time you think of (4)\_\_\_\_\_ that burger, hotdog, pizza, samosa, kachori or even ice cream in a restaurant, eating joint or a party, stop your instincts and look for some healthier food (5)\_\_\_\_\_ instead.

**SubQuestion No : 5**

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

- Ans ☒ 1. assumption  
☒ 2. solution  
☒ 3. derivation  
☒ 4. conclusion

**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.

Nutrition experts have researched the bad effects of junk food and have come to the (1)\_\_\_\_\_ that junk food manufacturing companies are fooling the people by (2)\_\_\_\_\_ deceptive advertisements that show junk food as healthy. We must substitute junk food with (3)\_\_\_\_\_ food like fruits and vegetables. So the next time you think of (4)\_\_\_\_\_ that burger, hotdog, pizza, samosa, kachori or even ice cream in a restaurant, eating joint or a party, stop your instincts and look for some healthier food (5)\_\_\_\_\_ instead.

**SubQuestion No : 6**

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

- Ans ☒ 1. observing  
☒ 2. showing  
☒ 3. assuming  
☒ 4. blowing

**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.

Nutrition experts have researched the bad effects of junk food and have come to the (1)\_\_\_\_\_ that junk food manufacturing companies are fooling the people by (2)\_\_\_\_\_ deceptive advertisements that show junk food as healthy. We must substitute junk food with (3)\_\_\_\_\_ food like fruits and vegetables. So the next time you think of (4)\_\_\_\_\_ that burger, hotdog, pizza, samosa, kachori or even ice cream in a restaurant, eating joint or a party, stop your instincts and look for some healthier food (5)\_\_\_\_\_ instead.

**SubQuestion No : 7**

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

- Ans ☒ 1. powerful  
☒ 2. healthier  
☒ 3. expensive  
☒ 4. cleaner

**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.

Nutrition experts have researched the bad effects of junk food and have come to the (1)\_\_\_\_\_ that junk food manufacturing companies are fooling the people by (2)\_\_\_\_\_ deceptive advertisements that show junk food as healthy. We must substitute junk food with (3)\_\_\_\_\_ food like fruits and vegetables. So the next time you think of (4)\_\_\_\_\_ that burger, hotdog, pizza, samosa, kachori or even ice cream in a restaurant, eating joint or a party, stop your instincts and look for some healthier food (5)\_\_\_\_\_ instead.

**SubQuestion No : 8**

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

- Ans ☒ 1. skipping  
☒ 2. building  
☒ 3. turning  
☒ 4. grabbing

**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.

Nutrition experts have researched the bad effects of junk food and have come to the (1)\_\_\_\_\_ that junk food manufacturing companies are fooling the people by (2)\_\_\_\_\_ deceptive advertisements that show junk food as healthy. We must substitute junk food with (3)\_\_\_\_\_ food like fruits and vegetables. So the next time you think of (4)\_\_\_\_\_ that burger, hotdog, pizza, samosa, kachori or even ice cream in a restaurant, eating joint or a party, stop your instincts and look for some healthier food (5)\_\_\_\_\_ instead.

**SubQuestion No : 9**

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

- Ans ☒ 1. chances  
☒ 2. options  
☒ 3. comparisons  
☒ 4. additions

**Q.10** Select the most appropriate **ANTONYM** of the given word.  
**Benevolent**

- Ans ☒ 1. Harmless  
☒ 2. Patient  
☒ 3. Cruel  
☒ 4. Happy

**Q.11** Select the **INCORRECTLY** spelt word in the given sentence.  
**Shreya prefers wearing green coloured saree on marriage funcktions.**

- Ans ☒ 1. Funcktions  
☒ 2. Wearing  
☒ 3. Marriage  
☒ 4. Prefers

**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 required'.  
**She was thinking at the fun they had.**

- Ans ☒ 1. No substitution required  
☒ 2. beside  
☒ 3. about  
☒ 4. by

**Q.13 Select the INCORRECTLY spelt word.**

- Ans ☒ 1. Contagious  
☒ 2. Couragious  
☒ 3. Gracious  
☒ 4. Physiologist

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

**A bolt from the blue**

- Ans ☒ 1. A sudden and unexpected event  
☒ 2. Raining heavily  
☒ 3. Thunder and rain in a storm  
☒ 4. A spontaneous but expected event

**Q.15 Select the most appropriate ANTONYM of the underlined word.**

**The growth of the cell wall is very rarely uniform.**

- Ans ☒ 1. Variegated  
☒ 2. Paired  
☒ 3. Balanced  
☒ 4. Fixed

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

**He takes his always dog for a walk in the park.**

- Ans ☒ 1. takes his dog for an always walk  
☒ 2. always takes his dog for a walk  
☒ 3. his dog for a walk always takes  
☒ 4. takes his dog for always a walk

**Q.17 Select the most appropriate option of the given word to fill in the blank.**

**The new construction sites have \_\_\_\_\_ attack by the environmentalists.**

- Ans ☒ 1. come off  
☒ 2. come out  
☒ 3. come under  
☒ 4. come upon

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

**The performance of the team in the lost match was dismal.**

- Ans ☒ 1. Sadden  
☒ 2. Cheap  
☒ 3. Luminous  
☒ 4. Dainty

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

**Walk a tightrope**

- Ans ☒ 1. To act carefully in a difficult situation  
☒ 2. To try and balance yourself  
☒ 3. To walk on a narrow road  
☒ 4. To be tensed about something

**Q.20** Identify the most appropriate **ANTONYM** of the underlined word in the following sentence.

There is no transparency in the procedure followed by the company.

- Ans ☒ 1. Reliability  
☒ 2. Coherence  
☒ 3. Opacity  
☒ 4. Clarity

**Q.21** Select the most appropriate synonym of the given word.

Desire

- Ans ☒ 1. Disgust  
☒ 2. Aversion  
☒ 3. Loathing  
☒ 4. Longing

**Q.22** Select the most appropriate option that can substitute the underlined word in the given sentence.

A newer, more effective computer system was installed in place of the obsolete one.

- Ans ☒ 1. modern  
☒ 2. outdated  
☒ 3. advanced  
☒ 4. current

**Q.23** Select the most appropriate **ANTONYM** of the given word.

Noble

- Ans ☒ 1. Magical  
☒ 2. Grand  
☒ 3. Common  
☒ 4. Indescribable

**Q.24** Select the most appropriate **ANTONYM** of the given word.

Vehement

- Ans ☒ 1. Reliable  
☒ 2. Passionate  
☒ 3. Mild  
☒ 4. Smashed

**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'.

I had to write a letter of mistake to my father for the blunder I made.

- Ans ☒ 1. apology  
☒ 2. circumstance  
☒ 3. gratitude  
☒ 4. No substitution required

**Q.1** The position of how many letters will remain unchanged if each of the letters in the word 'COUNTED' is arranged in English alphabetical order?

- Ans**
- ☐ 1. Three
  - ☐ 2. More than three
  - ☐ 3. None
  - ☒ 4. Two

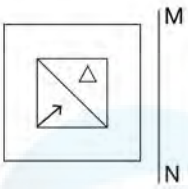
**Q.2** What should come in place of the question mark (?) in the given series?  
512, 1000, 1728, 2744, 4096, 5832, ?

- Ans**
- ☐ 1. 9261
  - ☐ 2. 4000
  - ☒ 3. 8000
  - ☐ 4. 6000

**Q.3** 17 is related to 136 following a certain logic. Following the same logic, 23 is related to 184. 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/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.)

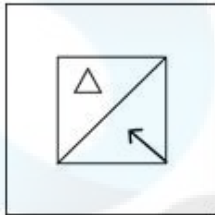
- Ans**
- ☐ 1. 228
  - ☐ 2. 234
  - ☐ 3. 230
  - ☒ 4. 232

**Q.4** Select the correct mirror image of the given figure when the mirror is placed at MN, as shown.

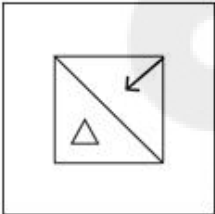


**Ans**

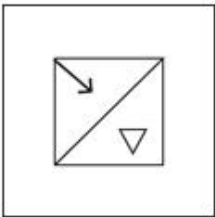
✓ 1.



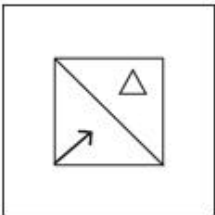
✗ 2.



✗ 3.



✗ 4.



**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?

$$26 \text{ B } 3 \text{ C } 5 \text{ D } 120 \text{ A } 4 = ?$$

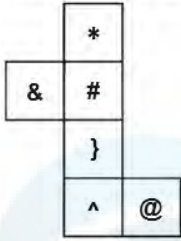
**Ans** ✗ 1. 55

✗ 2. 57

✓ 3. 53

✗ 4. 51

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



Ans ☒ 1. ^

☒ 2. @

☒ 3. }

☒ 4. &

**Q.7** Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?  
LPT, ?, BBF, JUL, RNR

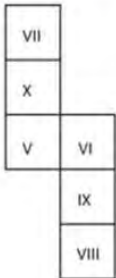
Ans ☒ 1. UTL

☒ 2. TIZ

☒ 3. COD

☒ 4. FIZ

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



Ans ☒ 1. VII

☒ 2. V

☒ 3. X

☒ 4. VIII

**Q.9** 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)

(35, 5, 7)

(108, 12, 9)

Ans ☒ 1. (118, 15, 9)

☒ 2. (114, 14, 8)

☒ 3. (91, 13, 7)

☒ 4. (254, 17, 7)



**Q.10** In a certain language, 'How are you' is written as 'Co De Ki' and 'You look happy' is written as 'Th De Mo'. How is 'you' written in the given language?

- Ans
- ☒ 1. Ki
  - ☒ 2. Mo
  - ☒ 3. De
  - ☒ 4. Co

**Q.11** Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

PQRSO TT UV MW V

- Ans
- ☒ 1. XTUS
  - ☒ 2. SNUX
  - ☒ 3. TSUX
  - ☒ 4. NTUY

**Q.12** The position of how many letters will remain unchanged if each of the letters in the word 'POWDERS' is arranged in English alphabetical order?

- Ans
- ☒ 1. One
  - ☒ 2. More than three
  - ☒ 3. None
  - ☒ 4. Three

**Q.13** 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 bags are paper.

All wood is paper.

Some bags are dolls.

Conclusion (I): All dolls are paper.

Conclusion (II): Some bags are wood.

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

**Q.14** In a certain code language,  
 'P + Q' means 'P is the wife of Q'.  
 'P - Q' means 'P is the brother of Q'.  
 'P / Q' means 'P is the son of Q'.  
 'P × Q' means 'P is the father of Q'.  
 If 'V / K × T + M × O', then how is K related to O?

- Ans
- ☒ 1. Father
  - ☒ 2. Mother's father
  - ☒ 3. Mother
  - ☒ 4. Father's mother

**Q.15** If 'T' stands for '+', 'P' stands for '÷', 'Q' stands for '×' and 'R' stands for '−', what will come in place of the question mark (?) in the following equation?  
 $24\ T\ 36\ P\ 48\ Q\ 32\ R\ 40\ T\ 53 = ?$

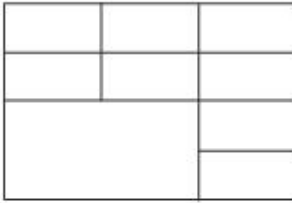
- Ans**
- ☒ 1. 73
  - ☒ 2. 61
  - ☒ 3. 48
  - ☒ 4. 31

**Q.16** What should come in place of ? in the given series?

119 128 137 146 155 ?

- Ans**
- ☒ 1. 162
  - ☒ 2. 161
  - ☒ 3. 164
  - ☒ 4. 163

**Q.17** How many rectangles are there in the given figure?



- Ans**
- ☒ 1. 31
  - ☒ 2. 32
  - ☒ 3. 33
  - ☒ 4. 34

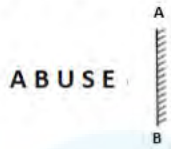
**Q.18** If 'A' stands for '+', 'B' stands for '×', 'C' stands for '÷' and 'D' stands for '−', then the resultant of which of the following will be 652?

- Ans**
- ☒ 1.  $109\ B\ 6\ A\ 16\ D\ 2\ C\ 6$
  - ☒ 2.  $109\ A\ 6\ D\ 16\ B\ 2\ C\ 6$
  - ☒ 3.  $109\ C\ 6\ D\ 16\ A\ 2\ B\ 6$
  - ☒ 4.  $109\ B\ 6\ D\ 16\ A\ 2\ C\ 6$

**Q.19** In a certain code language, 'now or never' is coded as 'ak bj ut' and 'never be late' is coded as 'bj tl cv'. How is 'never' coded in that language?

- Ans**
- ☒ 1. bj
  - ☒ 2. tl
  - ☒ 3. ak
  - ☒ 4. cv

**Q.20** Choose the alternative which closely resembles the mirror image of the given combination.



- Ans
- ☒ 1. E2UBA
  - ☒ 2. E2UBA
  - ☒ 3. E2UBA
  - ☒ 4. E2UBA

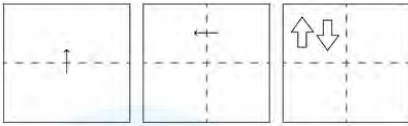
**Q.21** Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(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)

Pleasure : Pain

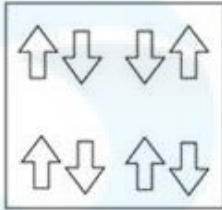
- Ans
- ☒ 1. Gentle : Brutal
  - ☒ 2. Fast: Quick
  - ☒ 3. Smart : Intelligent
  - ☒ 4. Angry : Furious

**Q.22** 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?

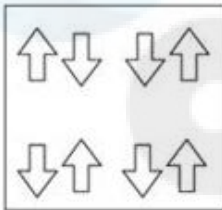


**Ans**

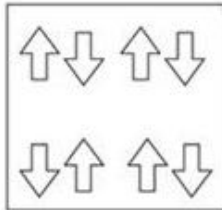
☒ 1.



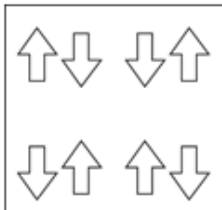
☒ 2.



☒ 3.



☒ 4.



**Q.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.)  
Dogs – Bark

**Ans** ☒ 1. Cats – Hiss

☒ 2. Donkeys – Bray

☒ 3. Cows – Oink

☒ 4. Snakes – Roar

**Q.24** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.  
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.)

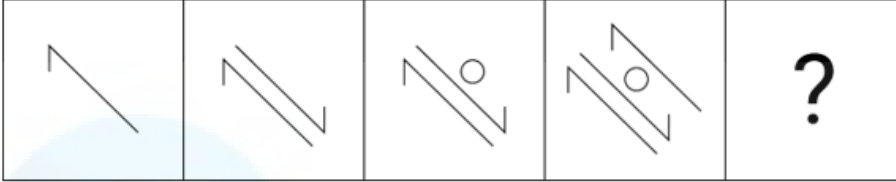
**Ans** ☒ 1. SMIG

☒ 2. MGCA

☒ 3. CWSR

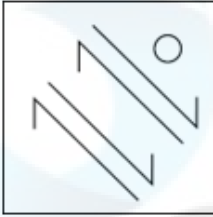
☒ 4. KEAY

**Q.25** Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series?

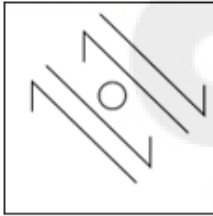


**Ans**

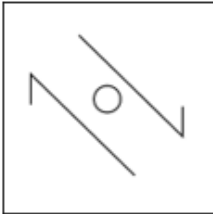
☒ 1.



☒ 2.



☒ 3.



☒ 4.



**Q.1** A 35% profit is made when a discount of 35% is given on the marked price of an item. When the discount is 45%, then the profit percentage will be:

**Ans**

☒ 1.  $11\frac{3}{13}\%$

☒ 2.  $13\frac{3}{17}\%$

☒ 3.  $17\frac{1}{13}\%$

☒ 4.  $14\frac{3}{13}\%$

**Q.2** In a triangle ABC,  $AB = AC$ . BC is extended to D such that  $CD = AB$  and the angle ADC is  $30^\circ$ . What are the angles of triangle ABC?

**Ans**

☒ 1.  $60^\circ, 60^\circ, 60^\circ$

☒ 2.  $50^\circ, 60^\circ, 70^\circ$

☒ 3.  $30^\circ, 60^\circ, 90^\circ$

☒ 4.  $45^\circ, 60^\circ, 75^\circ$

**Q.3** A mixture contains alcohol and water in the ratio of 12 : 5. On adding 14 liters of water, the ratio of alcohol to water becomes 4 : 3. The quantity of alcohol in the mixture is:

- Ans**
- ☒ 1. 42 L
  - ☐ 2. 18 L
  - ☐ 3. 28 L
  - ☐ 4. 30 L

**Q.4** Simplify the given expression.

$$\left[ 3 \times 6 - 3 \left\{ 2 \left( 2 \div \frac{1}{2} - 2 \right) + 2 \div \frac{1}{2} \right\} - 18 \right]$$

- Ans**
- ☒ 1. -24
  - ☐ 2. 24
  - ☐ 3. -18
  - ☐ 4. 18

**Q.5** If the price of tea is increased by 40%, by how what percentage must the consumption of tea be decreased so as not to increase the expenditure?

- Ans**
- ☐ 1.  $35\frac{9}{2}\%$
  - ☒ 2.  $28\frac{4}{7}\%$
  - ☐ 3.  $31\frac{3}{5}\%$
  - ☐ 4.  $15\frac{2}{9}\%$

**Q.6** A man bought 4 books for ₹50 each, 5 books for ₹60 each and 6 books for ₹70 each. The average cost of a book for the man is (round up to two decimal places):

- Ans**
- ☒ 1. ₹61.33
  - ☐ 2. ₹50.33
  - ☐ 3. ₹60.33
  - ☐ 4. ₹36.33

**Q.7** In a circle, O is the centre and AOB is the diameter. AT is a tangent to the circle. Line TB intersects the circle at Q. Given that  $\angle AOQ = 94^\circ$ , find  $\angle ATQ$ .

- Ans**
- ☐ 1.  $133^\circ$
  - ☒ 2.  $43^\circ$
  - ☐ 3.  $86^\circ$
  - ☐ 4.  $47^\circ$

**Q.8** What is the smallest number that must be added to 19487161 so that it is divisible by 11?

- Ans ☐ 1. 5  
☐ 2. 16  
☐ 3. 11  
☒ 4. 10

**Q.9** If the height of a solid right circular cylinder is 27 cm and diameter of its base is 30 cm, the total surface area (in  $cm^2$ ) of the right circular cylinder is:

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

- Ans ☐ 1. 3978  
☒ 2. 3960  
☐ 3. 3976  
☐ 4. 3964

**Q.10** In a 100-m race, A beats B by 20 m and B beats C by 5 m. In the same race, find the distance by which A beats C.

- Ans ☐ 1. 26 m  
☒ 2. 24 m  
☐ 3. 22 m  
☐ 4. 25 m

**Q.11** An amount of ₹8,000 was invested for 2 years, partly in scheme 1 at the rate of 5% simple interest per annum and the rest in scheme 2 at the rate of 4% simple interest per annum. The total interest received at the end was ₹720. The amount of money invested in scheme 1 is:

- Ans ☐ 1. ₹7,200  
☐ 2. ₹4,400  
☐ 3. ₹3,640  
☒ 4. ₹4,000

**Q.12** 3 solid spheres of diameters 6 cm, 8 cm and 10 cm are melted together to form a single solid sphere. Find its radius.

- Ans ☐ 1. 3 cm  
☐ 2. 12 cm  
☐ 3. 9 cm  
☒ 4. 6 cm

**Q.13** The following table shows the production of food grains in a country over the five years.

Year	Production (in ten lakh tonnes)			
	Wheat	Rice	Maize	Other grains
2016-17	650	250	200	450
2017-18	800	440	240	400
2018-19	680	390	220	500
2019-20	700	400	260	480
2020-21	640	440	300	520

The difference between the average production (in ten lakh tonnes) of wheat and maize over the years is:

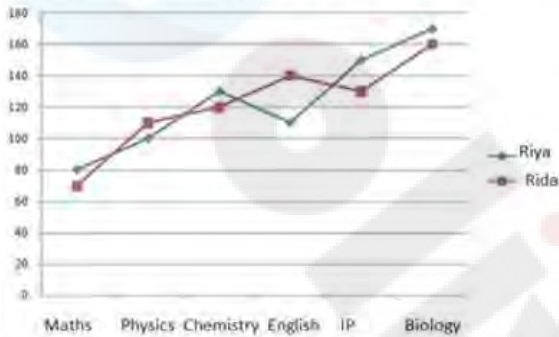
- Ans ☐ 1. 224  
☒ 2. 450  
☐ 3. 310  
☐ 4. 140

**Q.14** A shopkeeper buys 1800 kg wheat for ₹32,400. If 20% of this wheat is spoiled due to rain, at what rate (₹/kg) should he sell the rest to earn 20%?

- Ans
- ☒ 1. 26
  - ☒ 2. 29
  - ☒ 3. 27
  - ☒ 4. 25

**Q.15** Study the given graph and answer the question that follows.

The graph shows the marks obtained by Riya and Rida in six subjects in the CBSE 12<sup>th</sup> exam. The maximum marks in Maths, Physics and Chemistry are 140, and that in English, IP, Biology are 180



What is the percentage of marks obtained by Riya in Chemistry?

- Ans
- ☒ 1. 92.86%
  - ☒ 2. 92.68%
  - ☒ 3. 99.38%
  - ☒ 4. 95.87%

**Q.16** Two parallel chords of length 5 units and 8 units are on opposite sides of the center of a circle of radius 7 units. What is the distance between the chords? (round your answer to two decimal places)

- Ans
- ☒ 1. 12.82 units
  - ☒ 2. 11.28 units
  - ☒ 3. 11.82 units
  - ☒ 4. 12.28 units

**Q.17** Ramu used to spend 72% of his income. His income has increased by 12%, and he increases his expenditure by 5%. If Ramu earlier saved  $y$  and after the increases he now saves  $x$ , then what is the value of  $(\frac{x-y}{y} \times 100)\%$ ?

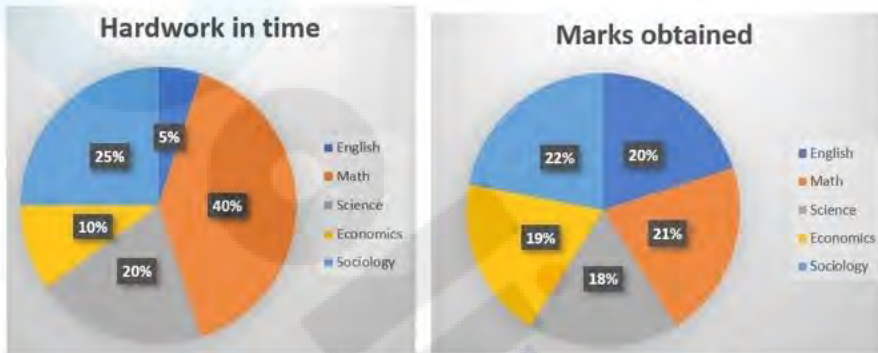
- Ans
- ☒ 1. 25%
  - ☒ 2. 22%
  - ☒ 3. 27%
  - ☒ 4. 30%



**Q.18** The ratio of the lateral surface area to the total surface area of a cylinder with base diameter 60cm and height 10 cm is:

- Ans ☒ 1. 1:9  
☒ 2. 1:3  
☒ 3. 1:7  
☒ 4. 1:4

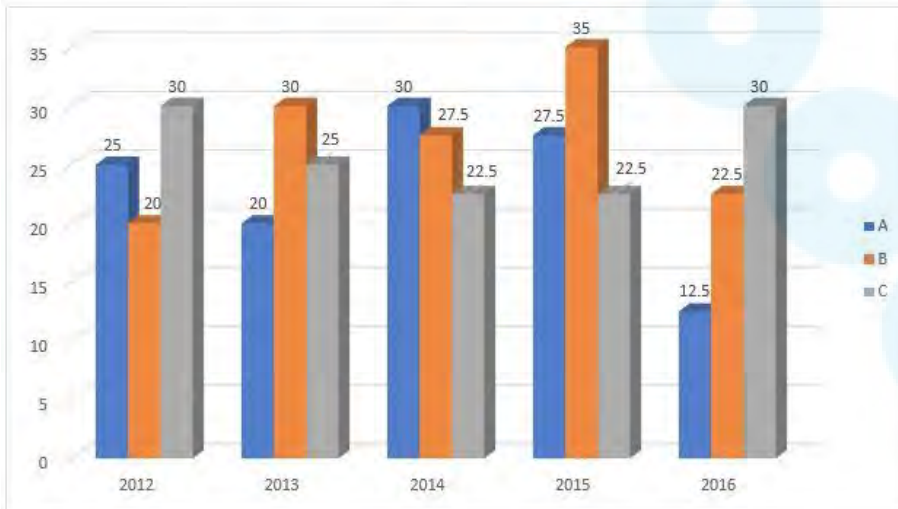
**Q.19** A student has 5 subjects in an examination. The distribution of hard work of 16 hours a day over 5 subjects and marks obtained 400 out of 500 are shown in the charts.



How much time did the student spend on Math and how much marks were obtained in math?

- Ans ☒ 1. 6.4 hrs and 90 marks  
☒ 2. 9.6 hrs and 84 marks  
☒ 3. 40 hrs and 21 marks  
☒ 4. 6.4 hrs and 84 marks

**Q.20** The following bar graph represents the production of three types of buses by a company over the years (in thousands).



In which of the following years was the percentage production of B type buses to C type buses, the maximum?

- Ans ☒ 1. 2013  
☒ 2. 2016  
☒ 3. 2014  
☒ 4. 2015

**Q.21** For what positive values of  $k$  do the following pair of linear equations have infinitely many solutions?  
 $kx + 3y - (k - 3) = 0$   
 $12x + ky - k = 0$

- Ans
- ☒ 1. 12
  - ☒ 2. 4
  - ☒ 3. 2
  - ☒ 4. 6

**Q.22** From a circle, a sector with a central angle of  $30^\circ$  is cut off. If the length of the arc of this sector is 5.5 cm, then find the radius (in cm) of the circle.

[Use  $\pi = \frac{22}{7}$ .]

- Ans
- ☒ 1. 12
  - ☒ 2. 10
  - ☒ 3. 11
  - ☒ 4. 10.5

**Q.23** If the income of Neha is 5% more than that of Monica, then the income of Monica is what percentage less than that of Neha?

- Ans
- ☒ 1.  $4\frac{16}{21}\%$
  - ☒ 2.  $4\frac{11}{21}\%$
  - ☒ 3.  $4\frac{13}{21}\%$
  - ☒ 4.  $4\frac{5}{21}\%$

**Q.24** If  $\cot \theta = \frac{3}{4}$ ,  $\theta$  is an acute angle, then  $\sin \theta + \cos \theta - \tan \theta$  is equal to:

- Ans
- ☒ 1.  $\frac{1}{11}$
  - ☒ 2.  $\frac{1}{18}$
  - ☒ 3.  $\frac{1}{13}$
  - ☒ 4.  $\frac{1}{15}$

**Q.25** Akhil can complete a piece of work in 24 days. Shyam can complete the same piece of work in 12 days. If both of them work together, in how many days can they complete the same piece of work?

- Ans
- ☒ 1. 12 days
  - ☒ 2. 8 days
  - ☒ 3. 10 days
  - ☒ 4. 6 days

**Q.1 Which of the following is NOT an alignment option for text in a cell?**

Ans ☒ 1. Justified

☐ 2. Center

☐ 3. Left

☐ 4. Right

**Q.2 Which of the following pairs of state and folk dance is correctly paired?**

Ans ☒ 1. Punjab – Bhangra dance

☐ 2. Gujarat – Bihu dance

☐ 3. Haryana – Garia or Gorla dance

☐ 4. Kerala – Ghoomar dance

**Q.3 In a symport:**

Ans ☒ 1. both molecules cross the membrane in the same direction

☐ 2. a molecule moves across a membrane independent of other molecules

☐ 3. both molecules cross the membrane in the opposite direction

☐ 4. a molecule moves across a membrane dependent of other molecules

**Q.4 \_\_\_\_\_ is one of the well-known schemes sponsored by the Union Government of India. It was launched in November 2015 with the aim of rescuing the country's ailing electricity distribution companies.**

Ans ☐ 1. One Nation, One Grid

☐ 2. Integrated Power Development Scheme (IPDS)

☒ 3. Ujwal DISCOM Assurance Yojana

☐ 4. Deendayal Upadhyaya Gram Jyoti Yojana

**Q.5 The Kailasha temple at Ellora near Aurangabad in Maharashtra was built by a king from the \_\_\_\_\_ Dynasty.**

Ans ☐ 1. Pratihara

☐ 2. Chandella

☐ 3. Gurjara Pratihara

☒ 4. Rashtrakuta

**Q.6 On the basis of highest population growth rate (Census, 2011), select the option that arranges the following states in descending order.**

A) Bihar

B) Arunachal Pradesh

C) Meghalaya

Ans ☐ 1. A, B, C

☐ 2. C, A, B

☒ 3. C, B, A

☐ 4. B, C, A

**Q.7 Who was the first to use the term 'horsepower' that refers to the power produced by an engine?**

Ans ☐ 1. Amedeo Avogadro

☐ 2. John Dalton

☐ 3. Albert Einstein

☒ 4. James Watt

**Q.8 Where did the indigenous sport 'Gatka' originate from?**

- Ans ☒ 1. Punjab  
☒ 2. Manipur  
☒ 3. Rajasthan  
☒ 4. Jammu and Kashmir

**Q.9 Which of the following song did AR Rahman record with Michael Jackson?**

- Ans ☒ 1. You are my destiny  
☒ 2. The Oracle  
☒ 3. Infinity Love  
☒ 4. Ekam Satyam

**Q.10 Who composed the music of the patriotic song 'Maa Tujhe Salaam'?**

- Ans ☒ 1. Anu Malik  
☒ 2. Himesh Reshammiya  
☒ 3. Shankar Mahadevan  
☒ 4. AR Rahman

**Q.11 Which of the following tribes does NOT live in India?**

- Ans ☒ 1. Maasai  
☒ 2. Tharu  
☒ 3. Gond  
☒ 4. Santhal

**Q.12 Former Union Minister \_\_\_\_\_ from Manipur was awarded Padma Shri in 2023 by the Union government for his contribution in public affairs in the last four decades.**

- Ans ☒ 1. Okram Ibobi Singh  
☒ 2. Thokchom Radheshyam Singh  
☒ 3. Thounaojam Chaoba  
☒ 4. Yumnam Joykumar

**Q.13 Which part of the Constitution of India deals with 'Citizenship'?**

- Ans ☒ 1. Part II  
☒ 2. Part III  
☒ 3. Part IV  
☒ 4. Part I

**Q.14 Under the discretionary power of which Article of the Indian Constitution did the SC of India recognise sex work as a profession?**

- Ans ☒ 1. Article 140  
☒ 2. Article 142  
☒ 3. Article 141  
☒ 4. Article 143

**Q.15** How can we add text to a slide in MS-PowerPoint?

- Ans
- ☐ 1. Note box
  - ☐ 2. Dialogue box
  - ☐ 3. Notes page
  - ☒ 4. Textbox

**Q.16** The Thomas Cup is associated with which of the following sports?

- Ans
- ☒ 1. Badminton male
  - ☐ 2. Badminton female
  - ☐ 3. Tennis female
  - ☐ 4. Tennis male

**Q.17** Which of the following persons was sworn in as chief of the Central Information Commission of India in November 2023?

- Ans
- ☐ 1. Divya Prakash Sinha
  - ☐ 2. Bimal Julka
  - ☒ 3. Heeralal Samariya
  - ☐ 4. Yashovardhan Azad

**Q.18** Which of the following committees had recommended the inclusion of a chapter on the Fundamental Duties in the Constitution of India and stressed that the citizens should become conscious that, in addition to the enjoyment of rights, they also have certain duties to perform?

- Ans
- ☐ 1. JR Varma Committee (1996)
  - ☐ 2. Ashok Mehta Committee (1977)
  - ☒ 3. Swaran Singh Committee (1976)
  - ☐ 4. Balwant Rai Mehta Committee (1976)

**Q.19** National income at constant prices means:

- Ans
- ☐ 1. income estimated at current year prices
  - ☒ 2. income estimated at base year prices
  - ☐ 3. income estimated for next year prices
  - ☐ 4. income estimated at any year prices

**Q.20** The birthday of \_\_\_\_\_ is celebrated as the International Day of Non-Violence.

- Ans
- ☐ 1. Rabindranath Tagore
  - ☐ 2. Sardar Vallabhbhai Patel
  - ☒ 3. Mahatma Gandhi
  - ☐ 4. Bhimrao Ambedkar

**Q.21** The Braj festival in \_\_\_\_\_ is held every year for two days in the Shukla Paksha of the Phalgun month, a few days before Holi.

- Ans
- ☐ 1. Haryana
  - ☒ 2. Rajasthan
  - ☐ 3. Madhya Pradesh
  - ☐ 4. Himachal Pradesh

**Q.22** Which of the following is NOT a moon of Jupiter?

- Ans ☒ 1. Callisto  
☒ 2. Europa  
☒ 3. Ganymede  
☒ 4. Triton

**Q.23** Which of the following statements is/are FALSE about the Special Economic Zones (SEZs) of India?

- i. One of the main objectives of the Zones Act was promotion of exports of goods and services.
- ii. The Government of India announced the Special Economic Zones (SEZs) Policy in the year 2011.
- iii. The SEZ Rules provided for different minimum land requirement for different classes of SEZs.

- Ans ☒ 1. Only i and ii  
☒ 2. Only ii and iii  
☒ 3. Only iii  
☒ 4. Only ii

**Q.24** Which of the following is the most dominant species of the Tropical Deciduous Forests?

- Ans ☒ 1. Coconut  
☒ 2. Rubber  
☒ 3. Mulberry  
☒ 4. Teak

**Q.25** Where and when was India's first Senior National Archery Championship held?

- Ans ☒ 1. Chennai, 1975  
☒ 2. Delhi, 1973  
☒ 3. Delhi, 1975  
☒ 4. Chennai, 1973