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CHSL Exam 2024 Tier I (01-07-2024 - 11-45 AM - 12-45 PM)

# Combined Higher Secondary Level Examination 2024 Tier I

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| Venue Name | |
| Exam Date | 01/07/2024 |
| Exam Time | 11:45 AM - 12:45 PM |
| Subject | CHSL Exam 2024 Tier I |

**Q.1** **Parts of the following sentence have been given as options. Select the option that contains an error.**
**Ramayana is an ancient Sanskrit epic; it is believed to be written around 500 BC to 100 BC.**

**Ans**
✓ 1. Ramayana is an ancient
✗ 2. around 500 BC to 100 BC.
✗ 3. believed to be written
✗ 4. Sanskrit epic; it is

**Q.2** **The given sentence is divided into four segments. Select the option that has the segment with a grammatical error.**
**She always / likes to / show on / her wealth.**

**Ans**
✗ 1. she always
✗ 2. her wealth.
✗ 3. likes to
✓ 4. show on

**Q.3** **Parts of the following sentence have been underlined and given as options. Select the option that contains an error.**
**<u>If it</u> <u>will rain</u> tomorrow, <u>I will</u> stay <u>at home</u>.**

**Ans**
✗ 1. If it
✗ 2. at home
✓ 3. will rain
✗ 4. I will

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

**Hard had she / thrown the basketball / when it fell / on the ground.**

**Ans**
✗ 1. thrown the basketball
✗ 2. when it fell
✗ 3. on the ground
✓ 4. Hard had she

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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.

The period from 1858-1905 was the seed time of Indian nationalism; and the early nationalists (1) _____ the seeds well and deep. Instead of basing their nationalism or appeals to (2) _____ sentiments and passing emotions, or abstract rights of freedom and liberty, or on obscurantist appeals to the past, they_____(3) it in a hard-headed and penetrating analysis of the complex mechanism of modern imperialism and the chief contradiction between the interests of the Indian people and British rule. The result was that they (4) _____ a common political and economic programme which (5) _____ rather than divided the different sections of the people. Later on, the Indian people could gather around this programme and wage powerful struggles.

**SubQuestion No : 5**

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

**Ans**
✔ 1. sowed
✘ 2. scattered
✘ 3. buried
✘ 4. threw

**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 period from 1858-1905 was the seed time of Indian nationalism; and the early nationalists (1) _____ the seeds well and deep. Instead of basing their nationalism or appeals to (2) _____ sentiments and passing emotions, or abstract rights of freedom and liberty, or on obscurantist appeals to the past, they_____(3) it in a hard-headed and penetrating analysis of the complex mechanism of modern imperialism and the chief contradiction between the interests of the Indian people and British rule. The result was that they (4) _____ a common political and economic programme which (5) _____ rather than divided the different sections of the people. Later on, the Indian people could gather around this programme and wage powerful struggles.

**SubQuestion No : 6**

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

**Ans**
✔ 1. shallow
✘ 2. deep
✘ 3. grounded
✘ 4. profound

**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 period from 1858-1905 was the seed time of Indian nationalism; and the early nationalists (1) _____ the seeds well and deep. Instead of basing their nationalism or appeals to (2) _____ sentiments and passing emotions, or abstract rights of freedom and liberty, or on obscurantist appeals to the past, they_____(3) it in a hard-headed and penetrating analysis of the complex mechanism of modern imperialism and the chief contradiction between the interests of the Indian people and British rule. The result was that they (4) _____ a common political and economic programme which (5) _____ rather than divided the different sections of the people. Later on, the Indian people could gather around this programme and wage powerful struggles.

**SubQuestion No : 7**

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

**Ans**
✔ 1. rooted
✘ 2. drove
✘ 3. controlled
✘ 4. minded

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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.

The period from 1858-1905 was the seed time of Indian nationalism; and the early nationalists (1) _____ the seeds well and deep. Instead of basing their nationalism or appeals to (2) _____ sentiments and passing emotions, or abstract rights of freedom and liberty, or on obscurantist appeals to the past, they_____(3) it in a hard-headed and penetrating analysis of the complex mechanism of modern imperialism and the chief contradiction between the interests of the Indian people and British rule. The result was that they (4) _____ a common political and economic programme which (5) _____ rather than divided the different sections of the people. Later on, the Indian people could gather around this programme and wage powerful struggles.

**SubQuestion No : 8**

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

**Ans**

✗ 1. collapsed

✓ 2. evolved

✗ 3. banished

✗ 4. uprooted

**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 period from 1858-1905 was the seed time of Indian nationalism; and the early nationalists (1) _____ the seeds well and deep. Instead of basing their nationalism or appeals to (2) _____ sentiments and passing emotions, or abstract rights of freedom and liberty, or on obscurantist appeals to the past, they_____(3) it in a hard-headed and penetrating analysis of the complex mechanism of modern imperialism and the chief contradiction between the interests of the Indian people and British rule. The result was that they (4) _____ a common political and economic programme which (5) _____ rather than divided the different sections of the people. Later on, the Indian people could gather around this programme and wage powerful struggles.

**SubQuestion No : 9**

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

**Ans**

✗ 1. complicated

✓ 2. united

✗ 3. classified

✗ 4. dissolved

**Q.10 Select the INCORRECTLY spelt word in the given sentence.**

**A distinguished academecian, Amartya Sen has taught in India, Britain and the United States.**

**Ans**

✗ 1. Taught

✗ 2. Distinguished

✓ 3. Academecian

✗ 4. Britain

**Q.11 Select the most appropriate meaning of the given idiom.**
**At one's fingertips**

**Ans**

✗ 1. Out of reach

✗ 2. To take revenge

✓ 3. To have complete knowledge

✗ 4. To be unaware of something

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**Q.12** Select the option that can be used as a one-word substitute for the given group of words.
Hospital for people with mental illnesses

**Ans**
✗ 1. Druggist
✗ 2. Shelter
✓ 3. Asylum
✗ 4. Hangar

**Q.13** Select the most appropriate option that can substitute the underlined segment in the given sentence.

The road which connecting the two states is overcrowded.

**Ans**
✗ 1. has connecting
✗ 2. connected
✓ 3. connects
✗ 4. have connected

**Q.14** Select the most appropriate ANTONYM of the underlined word in the given sentence.
The committee deposed him from his office.

**Ans**
✗ 1. Demolished
✗ 2. Segregated
✗ 3. Interacted
✓ 4. Promoted

**Q.15** Select the most appropriate ANTONYM of the underlined word in the given sentence.
Ria is liked by everyone as she is very amicable.

**Ans**
✗ 1. Dangerous
✗ 2. Stupid
✓ 3. Unfriendly
✗ 4. Hateful

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

**Ans**
✗ 1. Tenderness
✓ 2. Tolerance
✗ 3. Reliance
✗ 4. Awareness

**Q.17** Select the most appropriate ANTONYM of the underlined word.
The rocky terrain made the hike difficult and strenuous.

**Ans**
✗ 1. Lively
✗ 2. Demanding
✓ 3. Easy
✗ 4. Intense

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**Q.18** **Select the most appropriate meaning of the underlined idiom.**

**Teja followed his friend's advice so now he is <u>in deep water</u>.**

**Ans**
- ✓ 1. In trouble
- ✗ 2. In good position
- ✗ 3. In deep thoughts
- ✗ 4. In dilemma

**Q.19** **Select the most appropriate ANTONYM of the given word.**
**Beautiful**

**Ans**
- ✗ 1. Pungent
- ✓ 2. Ugly
- ✗ 3. Slimy
- ✗ 4. Stingy

**Q.20** **Select the most appropriate ANTONYM of the underlined word.**
**Language <u>interacts</u> with all aspects of human life and society.**

**Ans**
- ✗ 1. interrelates
- ✗ 2. co-operates
- ✓ 3. disconnects
- ✗ 4. intermingles

**Q.21** **Select the most appropriate option that can replace the bracketed word segment in the following sentence.**
**Children should avoid giving out personal details online (which will) identify them or their location.**

**Ans**
- ✓ 1. that could
- ✗ 2. what will
- ✗ 3. which might lead
- ✗ 4. whichever can

**Q.22** **Select the most appropriate ANTONYM of the word 'Defeat' in the given sentence.**
**The first battle of Panipat was fought on 21 April 1526, where Babur introduced canon warfare and was able to gain victory on Delhi and subjugated sultanate ruler Ibrahim Lodi.**

**Ans**
- ✓ 1. victory
- ✗ 2. warfare
- ✗ 3. gain
- ✗ 4. subjugated

**Q.23** **Select the most appropriate option that can substitute the underlined segment in the given sentence.**

**As I have no time to discuss the points, <u>so I wrote a email to her</u>.**

**Ans**
- ✗ 1. I write an email to her
- ✓ 2. I wrote an email to her
- ✗ 3. so I wrote an e-mail for her
- ✗ 4. so I wrote a e-mail to her

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**Q.24** **Select the INCORRECTLY spelt word.**

**Ans**
- ✔ 1. Aquire
- ✘ 2. Congratulate
- ✘ 3. Hygiene
- ✘ 4. Category

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

**It took 4 hours straight to _____ the deal with the regional company.**

**Ans**
- ✘ 1. perform
- ✘ 2. get
- ✔ 3. close
- ✘ 4. stop

**Q.1** In a certain code language, 'messages are encrypted' is written as 'tg gc mz' and 'are you coming' is written as 'ze fp mz'. How is 'are' written in the given language?

**Ans**
- ✘ 1. gc
- ✘ 2. fp
- ✔ 3. mz
- ✘ 4. ze

**Q.2** **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 rings are earrings.**
**Some rings are chains.**
**All chains are bangles.**
**Conclusions:**
**I. Some rings are bangles.**
**II. Some earrings are bangles.**
**III. Some chains are earrings.**

**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.3** **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)**
**(21, 34, 76)**
**(39, 26, 104)**

**Ans**
- ✔ 1. (28, 23, 79)
- ✘ 2. (34, 25, 102)
- ✘ 3. (25, 31, 108)
- ✘ 4. (37, 43, 127)

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**Q.4** **Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.**

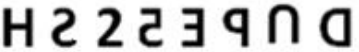
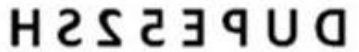
**KJ_HIJKI_JM_EJ_K**

**Ans**
✗ 1. IMKR
✗ 2. GIJO
✗ 3. KJOM
✓ 4. IGJO

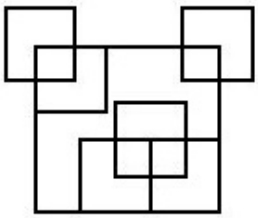
**Q.5** **If 15 December 2006 is a Friday, then what will the day of the week on 13 October 2009?**

**Ans**
✗ 1. Friday
✗ 2. Monday
✗ 3. Saturday
✓ 4. Tuesday

**Q.6** Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

**Ans**
✓ 1.
✗ 2. 
✗ 3. 
✗ 4.

**Q.7** **How many squares are there in the given figure?**



**Ans**
✗ 1. 10
✓ 2. 11
✗ 3. 12
✗ 4. 9

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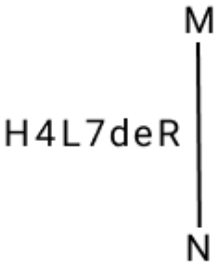
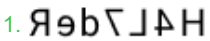
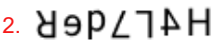
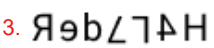
**Q.8** **Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.**




**Ans**

✔ 1. 

✗ 2. 

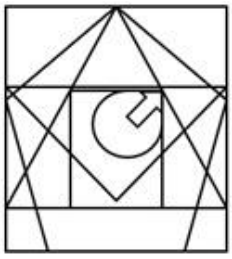
✗ 3. 

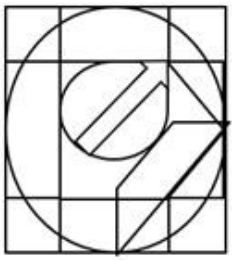
✗ 4.

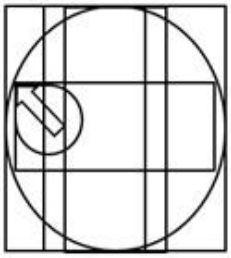
**Q.9** **Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).**

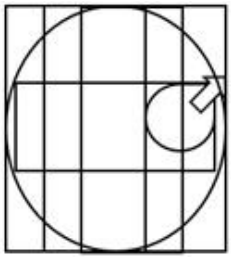
(X)

**Ans**

✔ 1. 

✗ 2. 

✗ 3. 

✗ 4. 

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**Q.10** 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.)
Continue – Interrupt

**Ans**
1. Cow – Buffalo ✗
2. Attic – Common ✓
3. Safe – Secure ✗
4. Connect – Join ✗

**Q.11** 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)

Hand : Wrist

**Ans**
1. Foot : Ankle ✓
2. Ear : Hair ✗
3. Muscle : Bone ✗
4. Skull : Stomach ✗

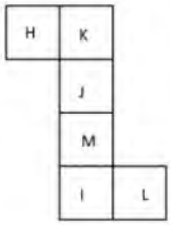
**Q.12** What will come in the place of '?' in the following equation, if '+' and '÷' are interchanged and '×' and '−' are interchanged?
$21 + 3 - 7 \div 11 \times 4 = ?$

**Ans**
1. 48 ✗
2. 51 ✗
3. 63 ✗
4. 56 ✓

**Q.13** **Based on the alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster does not belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.)**

**Ans**
1. LIF ✗
2. QNL ✓
3. WTQ ✗
4. ROL ✗

**Q.14** What would be the letter on the opposite side of 'K' if the given sheet is folded to form a cube?




**Ans**
1. M ✓
2. I ✗
3. L ✗
4. H ✗

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**Q.15** **11 is related to 55 following a certain logic. Following the same logic, 22 is related to 110. To which of the following is 44 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. 230
✓ 2. 220
✗ 3. 200
✗ 4. 210

**Q.16** Which of the following numbers will replace the question mark (?) in the given series?
54 58.7 64.4 71.1 78.8 ?

**Ans**
✗ 1. 86.8
✓ 2. 87.5
✗ 3. 85.1
✗ 4. 84.4

**Q.17** **'Q + R' means 'Q is the father of R'**
**'Q – R' means 'Q is the wife of R'**
**'Q × R' means 'Q is the brother of R'**
**'Q ÷ R' means 'Q is the daughter of R'.**
**What does ' M – N + O' mean?**

**Ans**
✓ 1. M is the mother of O
✗ 2. M is the daughter of O
✗ 3. M is the brother of O
✗ 4. M is the father of O

**Q.18** What should come in place of the question mark (?) in the given series?
162, 167, 172, 177, 182, ?

**Ans**
✗ 1. 186
✓ 2. 187
✗ 3. 188
✗ 4. 185

**Q.19** **If 6 May 2005 is a Friday, then what will the day of the week on 25 September 2018?**

**Ans**
✗ 1. Sunday
✓ 2. Tuesday
✗ 3. Thursday
✗ 4. Friday

**Q.20** In a certain code language, 'KIOSK' is coded as 'LJRTL' and 'FLAME' is coded as 'GMDNF'. What is the code for 'ENJOY' in the given code language?

**Ans**
✓ 1. FOMPZ
✗ 2. ENOQZ
✗ 3. GNMRY
✗ 4. EMOQY

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**Q.21** If 'T' stands for '×', 'M' stands for '+', 'K' stands for '÷' and 'G' stands for '–', what will come in place of the question mark (?) in the following equation?
100 K 5 M 73 T 48 M 56 G 23 = ?

**Ans**
✔ 1. 3557
✘ 2. 3500
✘ 3. 3560
✘ 4. 3575

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

ZRJ EUK JXL ? TDN

**Ans**
✔ 1. OAM
✘ 2. HST
✘ 3. WNE
✘ 4. QHR

**Q.23** **If 'Z' stands for '÷', 'Q' stands for '×', 'H' stands for '+' and 'E' stands for '–', what will come in place of the question mark (?) in the following equation?**
**17 H 23 Q 42 Z 7 E 13 = ?**

**Ans**
✘ 1. 785
✔ 2. 142
✘ 3. 688
✘ 4. 975

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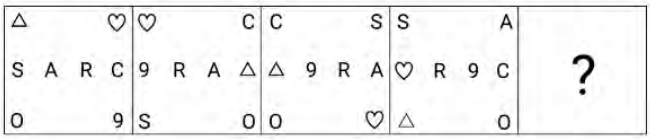
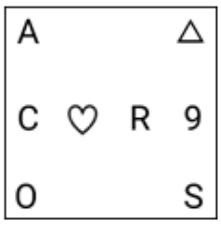
**Q.24** Which figure should replace the question mark (?) if the following figure series were to be continued?

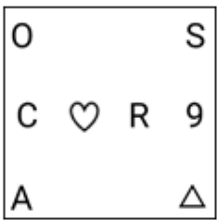



**Ans**

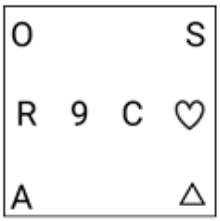
✔ 1.




✘ 2.

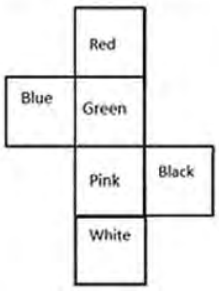



✘ 3.




✘ 4.

**Q.25** What would be the word on the opposite side of 'Blue' if the given sheet is folded to form a cube?




**Ans**

✔ 1. Black

✘ 2. White

✘ 3. Pink

✘ 4. Red

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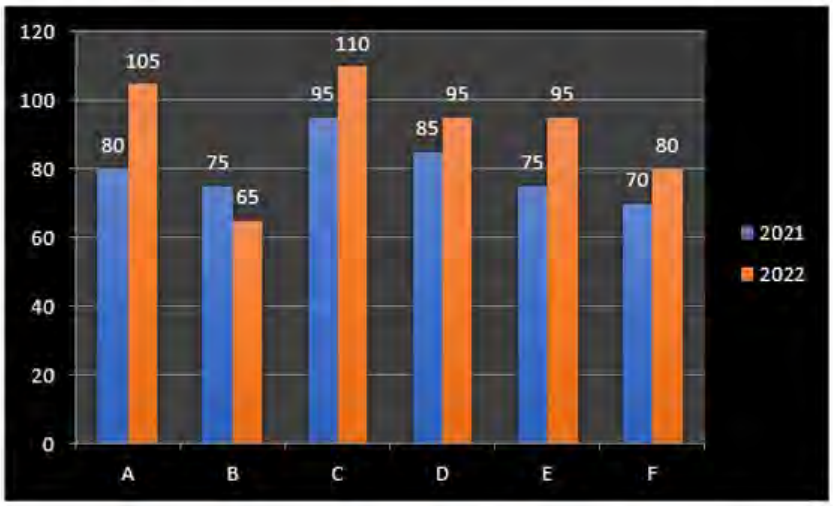
**Q.1** The following bar graph shows the sales (in thousands) of magazines from six branches (A, B, C, D, E and F) of a publishing company during two consecutive years 2021 and 2022.




What percent of the average sales of branches A, B and C in 2022 is the average sales of branches A, C and F in 2021?

**Ans**
- ✔ 1. 87.5%
- ✘ 2. 86.2%
- ✘ 3. 82.3%
- ✘ 4. 88.4%

**Q.2** **The age of the older of two boys is thrice that of the younger. 9 years ago it was five times that of the younger. Find the present age of each.**

**Ans**
- ✘ 1. 15 years, 45 years
- ✔ 2. 18 years, 54 years
- ✘ 3. 17 years, 51 years
- ✘ 4. 12 years, 36 years

**Q.3** **The respective ratio between numerical values of the curved surface area and the volume of a right circular cylinder is 2 : 3. If the respective ratio between the radius and the height of the cylinder is 3 : 7, what is the total surface area of the cylinder?**

**Ans**
- ✘ 1. $62\pi\ cm^2$
- ✘ 2. $45\pi\ cm^2$
- ✘ 3. $65\pi\ cm^2$
- ✔ 4. $60\pi\ cm^2$

**Q.4** **A person drives 110 miles at 55 miles per hour, he drives the next 120 miles at 60 miles per hour, and then he drives the next 60 miles in an hour. What is his average speed for the entire journey in miles per hour ?**

**Ans**
- ✘ 1. 55
- ✘ 2. 60
- ✘ 3. 63
- ✔ 4. 58

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**Q.5** The price of an electric bike was ₹1,25,000 last year. This year, its price got decreased by 30%. What is the price (in ₹) of the electric bike this year?

**Ans**

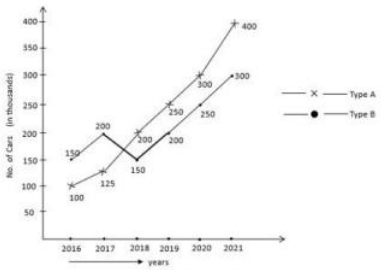
✗ 1. 87,000

✗ 2. 86,000

✓ 3. 87,500

✗ 4. 86,500

**Q.6** The following graph shows the production (in thousands) of two types (A and B) of cars by a company over the years 2016 to 2021.




In how many of the given years was the production of type A cars more than the average production of this type car in the given years?

**Ans**

✓ 1. 3

✗ 2. 2

✗ 3. 1

✗ 4. 4

**Q.7** **PQ is a diameter of a circle with centre O. The tangents at R meets PQ produced at A. If ∠RPQ = 27°, then measure of ∠RQP is:**

**Ans**

✓ 1. 63°

✗ 2. 54°

✗ 3. 27°

✗ 4. 153°

**Q.8** **Reshma took a loan of ₹12,00,000 with simple interest for as many years as the rate of interest. If she paid ₹9,72,000 as interest at the end of the loan period, what was the rate of interest per annum ?**

**Ans**

✓ 1. 9%

✗ 2. 8.7%

✗ 3. 8%

✗ 4. 7.5%

**Q.9** **Two circles touch each other at a point O. AB is a simple common tangent to both the circles touching at point A and point B. If radii of the circles are 9 cm and 4 cm, then find AB.**

**Ans**

✗ 1. 72 cm

✓ 2. 12 cm

✗ 3. 24 cm

✗ 4. 144 cm

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**Q.10** Ravi sells his goods at a 25% loss on cost price but uses 45% less weight. What is his percentage profit or loss?

**Ans**

✗ 1. Loss, $47\frac{9}{10}\%$

✗ 2. Loss, $36\frac{4}{11}\%$

✓ 3. Profit, $36\frac{4}{11}\%$

✗ 4. Profit, $47\frac{9}{10}\%$

**Q.11** **Find the number when successively divided by 3,5and 7 leaves remainder 2,1and 3, respectively, and the last quotient is 3.**

**Ans**

✗ 1. 367

✓ 2. 365

✗ 3. 362

✗ 4. 360

**Q.12** **If 18 toys out of 75 toys are for boys and the rest are for girls, what is the percentage of girls toys?**

**Ans**

✗ 1. 57%

✓ 2. 76%

✗ 3. 67%

✗ 4. 18%

**Q.13** If $2^3 : 8^{5.06} :: 8^{-4.06} : x$, find the value of x.

**Ans**

✗ 1. $2^3$

✗ 2. 0

✓ 3. 1

✗ 4. $\frac{1}{2^3}$

**Q.14** **In a ΔABC, two medians AD and BE intersect at G at right angles. If AD = 18 cm and BE = 12 cm, then the length of BD is equal to:**

**Ans**

✗ 1. 15 cm

✓ 2. 10 cm

✗ 3. 20 cm

✗ 4. 8 cm

**Q.15** Ram travelled an equal distance with the speed of 40 km/hr, 45 km/hr and 60 km/hr. What is the average speed of Ram during the whole journey? Correct to two decimal places.

**Ans**

✗ 1. 94.66 km/hr

✓ 2. 46.96 km/hr

✗ 3. 64.96 km/hr

✗ 4. 66.94 km/hr

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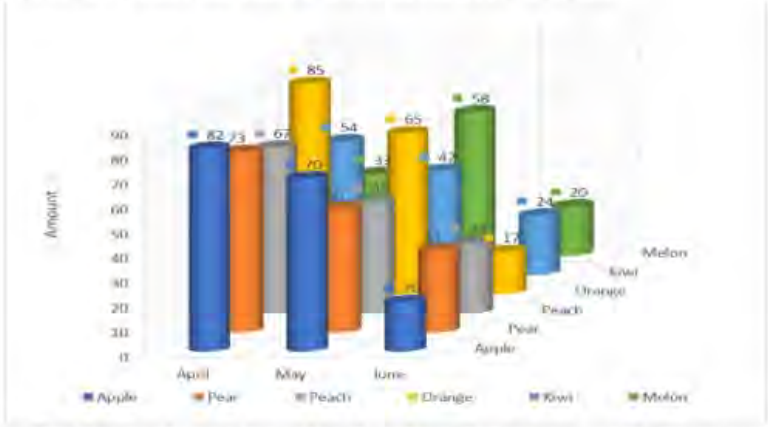
**Q.16** Study the given three-dimensional chart and answer the question that follows.
The chart details the sale of fruits in different months.




In which month was the sale of Melons the lowest and by how much was it more than the sale of Oranges in that month?

**Ans**
✗ 1. April, 3
✗ 2. May, 3
✓ 3. June, 3
✗ 4. June, 4

**Q.17** The value of $\left(\frac{7+8\times7\div8+7\div7\div7}{3+3\times3\div3+5\div5\div5}\right)$ is :

**Ans**
✗ 1. $1\frac{81}{217}$
✓ 2. $2\frac{61}{217}$
✗ 3. $3\frac{27}{217}$
✗ 4. $1\frac{31}{217}$

**Q.18** **The surface areas of two spheres are in the ratio 25 : 36. What is the ratio of their volumes?**

**Ans**
✗ 1. $\frac{36}{115}$
✓ 2. $\frac{125}{216}$
✗ 3. $\frac{36}{125}$
✗ 4. $\frac{25}{36}$

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**Q.19** **What is the value of the following expression?**

$$\frac{4}{7} \times 4\frac{1}{2} \div 5\frac{1}{3} \text{ of } 2\frac{1}{2} - \left(7\frac{7}{8} \div 5\frac{1}{9} \text{ of } 9\frac{9}{20}\right) + \frac{1}{2}$$

**Ans**

✗ 1. $\frac{1759}{3250}$

✗ 2. $\frac{1113}{856}$

✓ 3. $\frac{853}{1610}$

✗ 4. $\frac{1093}{111}$

**Q.20** **The sides of a cuboid are in the ratio 3 : 4 : 5 and its surface area is equal to the surface area of the cube with side 6 units. What is the approximate volume of the cuboid?**

**Ans**

✗ 1. 240

✓ 2. 210

✗ 3. 150

✗ 4. 180

**Q.21** A and B can do a piece of work in eight days and B alone can do it in 16 days. In how many days, can A do it alone?

**Ans**

✓ 1. 16 days

✗ 2. 24 days

✗ 3. 10 days

✗ 4. 18 days

**Q.22** The given table shows the marks obtained by 100 students out of 50 marks in Mathematics and Physics in an examination.

| Marks / Subjects | 40 or above | 30 or above | 20 or above | 10 or above | 0 or above |
|---|---|---|---|---|---|
| Mathematics | 9 | 32 | 80 | 92 | 100 |
| Physics | 4 | 21 | 66 | 81 | 100 |
| Average | 7 | 27 | 73 | 87 | 100 |

If at least 60% marks in Physics are required for pursuing higher studies in Physics, how many students will be eligible to pursue higher studies in Physics?

**Ans**

✗ 1. 66

✓ 2. 21

✗ 3. 81

✗ 4. 27

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**Q.23** In a circle, ABCD is a cyclic quadrilateral in which AE is drawn parallel to CD, and BA is produced to F. If ∠ABC = 85° and ∠FAE = 24°, find the value of ∠BCD.

**Ans**
- ✔ 1. 119°
- ✘ 2. 124°
- ✘ 3. 115°
- ✘ 4. 125°

**Q.24** Three persons ran for office and got, 1136, 7636 and 11628 votes, respectively. What was the winning candidate's percentage of the total votes?

**Ans**
- ✘ 1. 59%
- ✘ 2. 52%
- ✘ 3. 61%
- ✔ 4. 57%

**Q.25** If $\sin\theta = \frac{2xy}{x^2+y^2}$, then the value of $\tan\theta$ is:

**Ans**
- ✔ 1. $\frac{2xy}{x^2-y^2}$
- ✘ 2. $\frac{x^2-y^2}{2xy}$
- ✘ 3. $\frac{x^2-y^2}{x^2+y^2}$
- ✘ 4. $\frac{x^2+y^2}{x^2-y^2}$

**Q.1** Which of the following is NOT a stringed instrument?

**Ans**
- ✘ 1. Mandolin
- ✘ 2. Guitar
- ✔ 3. Flute
- ✘ 4. Violin

**Q.2** According to the National Crime Records Bureau data, from 2016 to 2019, suicide cases due to unemployment have increased by _____.

**Ans**
- ✔ 1. 24%
- ✘ 2. 20%
- ✘ 3. 18%
- ✘ 4. 21%

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**Q.3** **Which of the following is NOT one of the main pillars of the 'Namami Gange Programme', launched by the Government of India in 2014?**

**Ans**
- ✗ 1. Sewerage Treatment Infrastructure
- ✗ 2. Industrial Effluent Monitoring
- ✓ 3. River Linkage Development
- ✗ 4. River-Front Development

**Q.4** **Which of the following dances developed in the monasteries of Assam?**

**Ans**
- ✗ 1. Bharatanatyam
- ✗ 2. Kathak
- ✓ 3. Sattriya
- ✗ 4. Kuchipudi

**Q.5** **When was the Swarnajayanti Gram Swarozgar Yojana (SGSY) launched by the Government of India?**

**Ans**
- ✓ 1. 1999
- ✗ 2. 2000
- ✗ 3. 1995
- ✗ 4. 1991

**Q.6** **In the given main characteristics of farming which is NOT a characteristic of the Indian commercial farming?**

**Ans**
- ✓ 1. Slash and burn
- ✗ 2. Insecticides and pesticides
- ✗ 3. Chemical fertilisers
- ✗ 4. High yielding variety seeds

**Q.7** In year 2023, the Government of India launched which of the following schemes to bring Indian-origin researchers to higher educational institutions in the country?

**Ans**
- ✗ 1. VAPSI
- ✗ 2. AMANTRAN
- ✗ 3. SEEKHO
- ✓ 4. VAIBHAV

**Q.8** **Which of the following statements is correct about the Five-Year Plan?**

**Ans**
- ✗ 1. All Five-Year Plans have equal rates of growth.
- ✗ 2. The President was the ex-officio chairperson of the Planning Commission.
- ✓ 3. The first Five-Year Plan was started in 1951.
- ✗ 4. The Planning Commission was constituted in 1951.

**Q.9** **Which power were the Badami (or Vatapi) Chalukyas originally subjects of?**

**Ans**
- ✗ 1. Hoysalas
- ✗ 2. Pandyas
- ✓ 3. Kadambas
- ✗ 4. Pallavas

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**Q.10** **'Hampi Utsava,' which is celebrated in Karnataka, is also called _____. The festival that captures the pomp, splendour and glory of the historical period of Karnataka is celebrated over a week.**

**Ans**
- ✔ 1. Vijaya Utsava
- ✘ 2. Sarhul Mahotsava
- ✘ 3. Rajasi Utsava
- ✘ 4. Nritya Mahotsav

**Q.11** **Mohammad Yunus established which of the following banks in 1983?**

**Ans**
- ✔ 1. Grameen Bank
- ✘ 2. Indian Bank
- ✘ 3. Union Bank
- ✘ 4. State Bank

**Q.12** **Who among the followings won gold at the International Shooting Sport Federation (ISSF) junior world cup 2023?**

**Ans**
- ✘ 1. Umamahesh Maddineni
- ✔ 2. Dhanush Srikanth
- ✘ 3. Mahesh Pasupathy Anandakumar
- ✘ 4. Rajkanwar Singh Sandhu

**Q.13** **Which is, by far, the closest dwarf planet orbiting at only 2.8 times Earth's distance from the sun?**

**Ans**
- ✔ 1. Ceres
- ✘ 2. Makemake
- ✘ 3. Eris
- ✘ 4. Pluto

**Q.14** **Which of the following are needed for Skype to function on a computer?**
**1) A web cam**
**2) A microphone**
**3) A speaker**

**Ans**
- ✘ 1. Only 1 and 2
- ✘ 2. Only 2 and 3
- ✔ 3. 1, 2 and 3
- ✘ 4. Only 1 and 3

**Q.15** **On 26 January 1950 India became:**

**Ans**
- ✘ 1. a socialist and secular state
- ✔ 2. a sovereign, democratic, republic state
- ✘ 3. an independent state
- ✘ 4. a unitary state

**Q.16** **The default width of a column in MS-Excel is:**

**Ans**
- ✘ 1. 6 characters
- ✘ 2. 7 characters
- ✘ 3. 9 characters
- ✔ 4. 8 characters

**Q.17** ICC World Cup (cricket) 2023 was hosted by _____.

**Ans**
✗ 1. India and Bangladesh
✓ 2. India
✗ 3. India and Sri Lanka
✗ 4. India, Sri Lanka and Bangladesh

**Q.18** **According to Global Multidimensional poverty index (2022), which of the following groups of states is included in top 10 poorest states of India?**

**Ans**
✗ 1. Karnataka and Tamil Nadu
✗ 2. Manipur and Nagaland
✓ 3. Meghalaya and Madhya Pradesh
✗ 4. Punjab and Gujarat

**Q.19** **In which year did Robert Brown observe the zigzag movement of colloidal particles in solution?**

**Ans**
✗ 1. 1829
✓ 2. 1827
✗ 3. 1828
✗ 4. 1826

**Q.20** **_____ is one of the first criticism of the caste system written by Mahatma Phule and published in the year 1873.**

**Ans**
✗ 1. Jati ka Unmoolan
✗ 2. Bharat Mein Jaati Evam Prajaati
✗ 3. Gulami Ki Kahani
✓ 4. Gulamgiri

**Q.21** **Which of the following parts of the Indian Constitution is described as the 'Magna Carta of India'?**

**Ans**
✓ 1. Part III
✗ 2. Part I
✗ 3. Part IV
✗ 4. Part II

**Q.22** **The song 'Teri mitti' is from which of the following movies?**

**Ans**
✗ 1. Jai Ho
✓ 2. Kesari
✗ 3. Satya Mev Jayte
✗ 4. Rajniti

**Q.23** **Who was the chief coordinator for the G20 summit which held in India in 2023?**

**Ans**
✗ 1. Vijay Gokhale
✗ 2. S Jaishankar
✓ 3. Harsh Vardhan Shringla
✗ 4. Vinay Kwatra

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**Q.24 Which of the following statements about eutrophication is correct?**

**Ans**

✔ 1. It happens when too much nitrogen enriches the water, causing excessive growth of plants and algae.

✘ 2. It happens when too much carbon enriches the water, causing excessive growth of bacteria and reduced growth of plants.

✘ 3. It happens when too less nitrogen is present in the water, causing reduced growth of plants and algae.

✘ 4. It is a beneficial process for environment restoration.

**Q.25 Nehru Institute of Mountaineering is located at _____.**

**Ans**

✘ 1. Jammuand Kashmir

✘ 2. Himachal Pradesh

✔ 3. Uttarakhand

✘ 4. Leh

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