Combined Higher Secondary Level Examination 2024 Tier I

Venue Name	
Exam Date	04/07/2024
Exam Time	9:00 AM - 10:00 AM
Subject	CHSL Exam 2024 Tier I

Q.1 **The following sentence has been split into four segments. Identify the segment that contains a grammatical error.**
I am very much / obliged of my friend / for the help / he rendered to me.

Ans
✗ 1. I am very much
✗ 2. he rendered to me
✗ 3. for the help
✓ 4. obliged of my friend

Q.2 **The given sentence is divided into four segments. Select the option that has the segment with a grammatical error.**
I am sure / that he will praying / for a good crop / this year.

Ans
✗ 1. this year.
✗ 2. I am sure
✗ 3. for a good crop
✓ 4. that he will praying

Q.3 **The following sentence has been divided into four segments. Identify the segment that contains a grammatical error.**

My students are / waiting for / their flights / at the gate no. 6.

Ans
✓ 1. at the gate no. 6.
✗ 2. their flights
✗ 3. waiting for
✗ 4. My students are

Q.4 **Parts of the following sentence have been underlined and given as options. Select the option that contains an error.**
She <u>will being</u> <u>studying</u> for her <u>exams</u> <u>tomorrow</u>.

Ans
✗ 1. studying
✗ 2. exams
✗ 3. tomorrow
✓ 4. will being

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.
Oil is almost certainly one of the ocean's greatest resources. 33% of the world's oil comes from seaward fields in seas. Oils are liquids that easily burn and do not (1)_____ in water. Most of the time, they are made of chains of carbon and hydrogen atoms. There are three (2)_____ types of oils: mineral, essential and fixed oils. From plants, essential oils are thin, scented oils. Because they frequently have an odour, essential oils are (3)_____ in perfumery and food flavouring. Aromatic extraction processes like cold pressing, distillation and extraction are typically used to prepare essential oils. Fatty acids are used by animals and plants to make fixed oils. They are especially non-volatile oils that are found in the seeds of cotton, corn, flax, sunflowers, peanuts, coconuts and olives, as well as in fatty animal tissues. Mineral oils are (4)_____ from petroleum which has been underground for millions of years from sea organism skeletons. Mineral oils are one of the petroleum by-products with the lowest prices. Mineral oils are colourless and transparent. They are made up of a (5)_____ of hydrocarbons.

SubQuestion No : 5

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

Ans
✗ 1. melt
✗ 2. diffuse
✗ 3. evaporate
✓ 4. dissolve

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.
Oil is almost certainly one of the ocean's greatest resources. 33% of the world's oil comes from seaward fields in seas. Oils are liquids that easily burn and do not (1)_____ in water. Most of the time, they are made of chains of carbon and hydrogen atoms. There are three (2)_____ types of oils: mineral, essential and fixed oils. From plants, essential oils are thin, scented oils. Because they frequently have an odour, essential oils are (3)_____ in perfumery and food flavouring. Aromatic extraction processes like cold pressing, distillation and extraction are typically used to prepare essential oils. Fatty acids are used by animals and plants to make fixed oils. They are especially non-volatile oils that are found in the seeds of cotton, corn, flax, sunflowers, peanuts, coconuts and olives, as well as in fatty animal tissues. Mineral oils are (4)_____ from petroleum which has been underground for millions of years from sea organism skeletons. Mineral oils are one of the petroleum by-products with the lowest prices. Mineral oils are colourless and transparent. They are made up of a (5)_____ of hydrocarbons.

SubQuestion No : 6

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

Ans
✗ 1. initial
✗ 2. early
✗ 3. original
✓ 4. primary

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Oil is almost certainly one of the ocean's greatest resources. 33% of the world's oil comes from seaward fields in seas. Oils are liquids that easily burn and do not (1)_____ in water. Most of the time, they are made of chains of carbon and hydrogen atoms. There are three (2)_____ types of oils: mineral, essential and fixed oils. From plants, essential oils are thin, scented oils. Because they frequently have an odour, essential oils are (3)_____ in perfumery and food flavouring. Aromatic extraction processes like cold pressing, distillation and extraction are typically used to prepare essential oils. Fatty acids are used by animals and plants to make fixed oils. They are especially non-volatile oils that are found in the seeds of cotton, corn, flax, sunflowers, peanuts, coconuts and olives, as well as in fatty animal tissues. Mineral oils are (4)_____ from petroleum which has been underground for millions of years from sea organism skeletons. Mineral oils are one of the petroleum by-products with the lowest prices. Mineral oils are colourless and transparent. They are made up of a (5)_____ of hydrocarbons.

SubQuestion No : 7

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

Ans

✗ 1. applied

✗ 2. employed

✓ 3. utilised

✗ 4. operated

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.
Oil is almost certainly one of the ocean's greatest resources. 33% of the world's oil comes from seaward fields in seas. Oils are liquids that easily burn and do not (1)_____ in water. Most of the time, they are made of chains of carbon and hydrogen atoms. There are three (2)_____ types of oils: mineral, essential and fixed oils. From plants, essential oils are thin, scented oils. Because they frequently have an odour, essential oils are (3)_____ in perfumery and food flavouring. Aromatic extraction processes like cold pressing, distillation and extraction are typically used to prepare essential oils. Fatty acids are used by animals and plants to make fixed oils. They are especially non-volatile oils that are found in the seeds of cotton, corn, flax, sunflowers, peanuts, coconuts and olives, as well as in fatty animal tissues. Mineral oils are (4)_____ from petroleum which has been underground for millions of years from sea organism skeletons. Mineral oils are one of the petroleum by-products with the lowest prices. Mineral oils are colourless and transparent. They are made up of a (5)_____ of hydrocarbons.

SubQuestion No : 8

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

Ans

✗ 1. invented

✗ 2. fabricated

✗ 3. renewed

✓ 4. produced

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.
Oil is almost certainly one of the ocean's greatest resources. 33% of the world's oil comes from seaward fields in seas. Oils are liquids that easily burn and do not (1)_____ in water. Most of the time, they are made of chains of carbon and hydrogen atoms. There are three (2)_____ types of oils: mineral, essential and fixed oils. From plants, essential oils are thin, scented oils. Because they frequently have an odour, essential oils are (3)_____ in perfumery and food flavouring. Aromatic extraction processes like cold pressing, distillation and extraction are typically used to prepare essential oils. Fatty acids are used by animals and plants to make fixed oils. They are especially non-volatile oils that are found in the seeds of cotton, corn, flax, sunflowers, peanuts, coconuts and olives, as well as in fatty animal tissues. Mineral oils are (4)_____ from petroleum which has been underground for millions of years from sea organism skeletons. Mineral oils are one of the petroleum by-products with the lowest prices. Mineral oils are colourless and transparent. They are made up of a (5)_____ of hydrocarbons.

SubQuestion No : 9

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

Ans
✗ 1. cooperation
✓ 2. combination
✗ 3. association
✗ 4. collaboration

Q.10 Fill in the blank with the most appropriate ANTONYM of the underlined word.

Gentlemen always go for a <u>lawful</u> approach, but rouges choose _____ ways to solve problems.

Ans
✗ 1. sophisticated
✗ 2. legitimate
✗ 3. legal
✓ 4. illicit

Q.11 Select the most appropriate option that can substitute the underlined segment in the given sentence.
The painting <u>look</u> good in this room.

Ans
✗ 1. looking
✗ 2. had look
✗ 3. have looking
✓ 4. looks

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'.
Applications <u>are to be sent</u> to the school's e-mail ID before 30th June.

Ans
✗ 1. will be send to
✗ 2. would be send to
✓ 3. No substitution required
✗ 4. is sending

Q.13 Select the most appropriate meaning of the underlined idiom.
Vishnu and Vignesh are always <u>like two peas in a pod</u>.

Ans
✗ 1. Good in every way
✓ 2. Very similar to each other
✗ 3. Smart and intelligent
✗ 4. Happy and compassionate

Q.14 **Select the most appropriate meaning of the underlined idiom in the following sentence.**
Independence Day is considered as a red-letter day in the history of India.

Ans
✗ 1. Regular day
✗ 2. Uneventful day
✓ 3. Memorable day
✗ 4. Unimportant day

Q.15 **Select the most appropriate option that can substitute the underlined segment in the given sentence.**
He lived on the bank of a mighty river, broad and deep, that have always silently rolling on to a vast undiscovered ocean.

Ans
✗ 1. which were always silently rolling
✗ 2. what has always silently rolling
✗ 3. that were always silently rolling
✓ 4. which was always silently rolling

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

Ans
✗ 1. Productive
✓ 2. Trivial
✗ 3. Recurring
✗ 4. Significant

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

A sailor was _____through the high tides.

Ans
✓ 1. sailing
✗ 2. selling
✗ 3. ceiling
✗ 4. swelling

Q.18 **Select the most appropriate option to fill in the blank.**

The _____ in my shoelace created a lot of trouble.

Ans
✗ 1. not
✗ 2. naught
✗ 3. nought
✓ 4. knot

Q.19 **Replace the underlined word in the given sentence with an appropriate synonym from the options listed below.**
They gave us the impression that Clara was a cold and calculating woman, who was only after power.

Ans
✗ 1. unscrupulous
✗ 2. unsympathetic
✓ 3. manipulative
✗ 4. callous

Q.20 **Select the correct spelling of the underlined word in the following sentence.**
I am <u>contant</u> with my day's work.

Ans
✗ 1. contint
✗ 2. contante
✓ 3. content
✗ 4. cuntent

Q.21 **Select the most appropriate ANTONYM of the given word.**
Merit

Ans
✗ 1. Occult
✗ 2. Tumult
✓ 3. Fault
✗ 4. Result

Q.22 **Select the most appropriate option that can substitute the underlined segment in the given sentence.**
If you are thinking about investing in share markets, <u>isn't it</u> make sense to find an expert?

Ans
✗ 1. do it
✗ 2. did it
✓ 3. doesn't it
✗ 4. is it

Q.23 **Select the most appropriate homophone to fill in the blank.**
Namita still cannot _____ the pain of her cat's untimely demise.

Ans
✓ 1. bear
✗ 2. beer
✗ 3. bier
✗ 4. bare

Q.24 **Select the most appropriate option to fill in the blank.**

The crowd gave them a _____ of applause.

Ans
✗ 1. load
✓ 2. round
✗ 3. laugh
✗ 4. yell

Q.25 **Select the INCORRECTLY spelt word.**

Ans
✗ 1. Amendment
✗ 2. Adulterous
✓ 3. Advertisment
✗ 4. Astounding

Q.1 **If 'J' stands for '÷', 'V' stands for '×', 'K' stands for '+' and 'A' stands for '–', what will come in place of the question mark (?) in the following equation?**
12 J 2 K 17 A 15 V 19 = ?

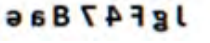
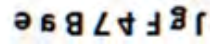
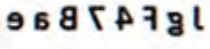
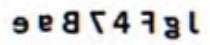
Ans
✗ 1. –75
✗ 2. –776
✓ 3. –262
✗ 4. –76

Q.2 **Select the combination of letters that when sequentially placed in the blanks of the given series will logically complete the series.**
_ F _ G E E _ E _ E E F _ G E E _ E G _

Ans
✗ 1. EFFGFEF
✗ 2. FEFGFFE
✓ 3. EEFGEFE
✗ 4. EFGFEEF

Q.3 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.4 What should come in place of ? in the given series based on the English alphabetical order?

RST VZW ZGZ DNC ?

Ans
✗ 1. MOC
✓ 2. HUF
✗ 3. COD
✗ 4. ALF

Q.5 What should come in place of the question mark (?) in the given series?

22, 24, 28, 30, 34, ?

Ans
✗ 1. 38
✗ 2. 35
✓ 3. 36
✗ 4. 37

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



Ans

✔ 1. ɲ A ɔ Ǝ ɿ Ɑ ẹ

✘ 2. ɲ A ɔ Ǝ ɿ G ẹ

✘ 3. A ɲ ɔ Ǝ ɿ Ɑ ẹ

✘ 4. ɲ A ɔ E ɿ Ɑ ẹ

Q.7 What will come in the place of the question mark (?) in the following equation, if '+' and '×' are interchanged and '–' and '÷' are interchanged?

35 × 96 – 8 + 3 ÷ 11 = ?

Ans

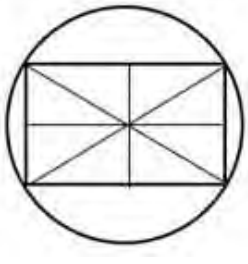
✔ 1. 60

✘ 2. 40

✘ 3. 55

✘ 4. 42

Q.8 How many rectangles are there in the given figure?



Ans

✘ 1. 6

✘ 2. 8

✘ 3. 7

✔ 4. 9

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.



Q.10 **In a certain code language,**
'M & N' means 'M is the wife of N',
'M @ N' means 'M is the brother of N',
'M $ N' means 'M is the father of N',
'M # N' means 'M is the son of N'.
Based on the above, how is T related to G if 'T @ S # M & N $ G'?

Ans

✗ 1. Father

✗ 2. Father's brother

✔ 3. Brother

✗ 4. Son

Q.11 **The position of how many letters will remain unchanged if each of the letters in the word SOUNDBAR is arranged in alphabetical order?**

Ans

✗ 1. Two

✗ 2. Three

✓ 3. One

✗ 4. Four

Q.12 उस श -यु का चयन कीजिए जो नीचे दिए गए शो ंके यु म किए गए समान संबंध का सबसे आ नि पण करता है।
(शो ंको अथपूण हिंदी शो ंके प म माना जाना चाहिए और उ श म अ रों की सां / ंजन/ रों की सां के आधार पर एक दूसरे से संबंधित नहीं किया जाना चाहिए।)
तालुआ : मुंह

Ans

✗ 1. पहाड़ी : पवतमाला

✗ 2. नाला : बांध

✗ 3. इं धनुष : आकाश

✓ 4. छत : कमरा

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



Ans

✗ 1. Pray

✓ 2. Fly

✗ 3. Play

✗ 4. Cry

Q.14 **Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.**
Statements:
All rings are bangles.
Some bangles are anklets.
No anklet is a pendant.
Conclusions:
(I) All rings being anklets is a possibility.
(II) All bangles can never be pendants.

Ans

✗ 1. Only conclusion II follows

✗ 2. None of the conclusions follow

✗ 3. Only conclusion I follows

✓ 4. Both conclusions I and II follow

Q.15 **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. EGJ
- ✘ 2. PRV
- ✘ 3. GIM
- ✘ 4. HJN

Q.16 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?

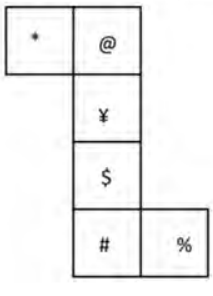
32 B 4 D 116 A 2 C 13 = ?

Ans
- ✔ 1. 83
- ✘ 2. 81
- ✘ 3. 82
- ✘ 4. 84

Q.17 **529 is related to 23 following a certain logic. Following the same logic, 324 is related to 18. To which of the following is 625 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. 23
- ✘ 2. 35
- ✔ 3. 25
- ✘ 4. 27

Q.18 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.19 In a certain code language, 'I missed breakfast' is written as 'nl zn kq' and 'train is missed' is written as 'zm kg nl'. How is 'missed' written in the given language?

Ans
- ✘ 1. kq
- ✘ 2. zn
- ✔ 3. nl
- ✘ 4. zm

Q.20 **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/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.)
(5, 25, 50)
(8, 64, 128)

Ans
✔ 1. (12, 144, 288)
✘ 2. (12, 134, 288)
✘ 3. (12, 144, 298)
✘ 4. (12, 144, 278)

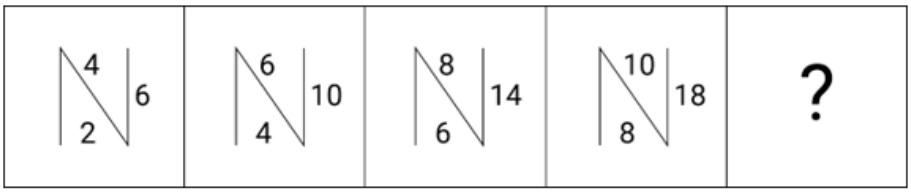
Q.21 **In a certain code language, MOAT' is coded as '8652' and 'TRAM' is coded as '4256'. What is the code for 'R' in the given code language?**

Ans
✘ 1. 6
✘ 2. 2
✔ 3. 4
✘ 4. 8

Q.22 What should come in place of the question mark (?) in the given series?
13, 22, 33, 46, ?, 78, 97

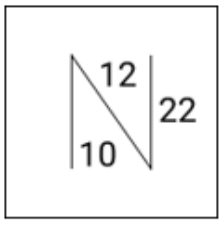
Ans
✘ 1. 60
✔ 2. 61
✘ 3. 65
✘ 4. 56

Q.23 **Identify the figure in the options that when put in place of the question mark (?) will logically complete the series?**

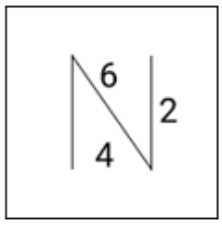


Ans

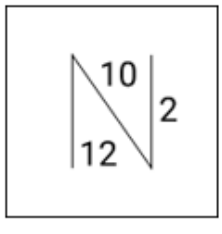
✔ 1.



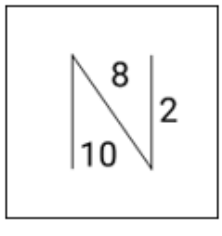
✘ 2.



✘ 3.



✘ 4.



Q.24 **If 16 July 2001 is Monday, then what will be the day of the week on 23 December 2006?**

Ans

✔ 1. Saturday

✘ 2. Thursday

✘ 3. Wednesday

✘ 4. Monday

Q.25 उस शब्द-युग्म का चयन कीजिए जो नीचे दिए गए शब्दों के युग्म में व्यक्त किए गए समान संबंध का सबसे अच्छा निरूपण करता है।
(शब्दों को अर्थपूर्ण हिंदी शब्दों के रूप में माना जाना चाहिए और उन्हें शब्द में अक्षरों की संख्या/व्यंजन/स्वरों की संख्या के आधार पर एक दूसरे से संबंधित नहीं किया जाना चाहिए।)
भारत : आम

Ans
✗ 1. ऑस्ट्रेलिया : अंगूर
✗ 2. फ्रांस : सेब
✗ 3. ग्रीस : केला
✓ 4. न्यूजीलैंड : कीवी

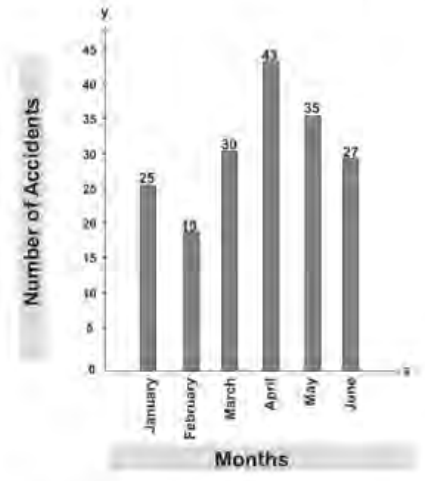
Q.1 **A person spends 10% of his income on groceries, 10% on medicines, 20% on children's education, 15% on house rent, and he saves the remaining amount. If his monthly income is ₹30,000, find his savings.**

Ans
✓ 1. ₹13,500
✗ 2. ₹16,500
✗ 3. ₹12,500
✗ 4. ₹15,500

Q.2 **If 70% of the cost price of an article is equal to 40% of its selling price, what is the profit percentage?**

Ans
✗ 1. 80%
✗ 2. 85%
✗ 3. 70%
✓ 4. 75%

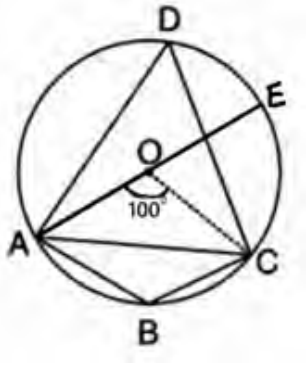
Q.3 The given bar graph shows the number of accidents in a city during the first 6 months of a year. Examine the bar graph and answer the question.



What is the percentage of accidents in the month of April with respect to the total accidents in the city during six months? (Correct to nearest integer)

Ans
- ✗ 1. 22%
- ✗ 2. 15%
- ✗ 3. 20%
- ✓ 4. 24%

Q.4 **In the given figure, O is the centre of the circle, AE is the diameter and ∠AOC = 100°.**



The value of ∠CDE + ∠CEA is:

Ans
- ✓ 1. 90°
- ✗ 2. 60°
- ✗ 3. 80°
- ✗ 4. 100°

Q.5 **Which of the following numbers is divisible by 22?**

Ans
- ✗ 1. 654320
- ✓ 2. 893002
- ✗ 3. 602351
- ✗ 4. 645372

Q.6 **Convert 28% into the form of ratio.**

Ans
✗ 1. 25 : 7
✓ 2. 7 : 25
✗ 3. 7 : 18
✗ 4. 18 : 7

Q.7 **The number nearest to 7658 and exactly divisible by 45 is:**

Ans
✗ 1. 7645
✗ 2. 7660
✗ 3. 7640
✓ 4. 7650

Q.8 Given below is the observed data of the ages of various children.

Age in years	Number of children
6	8
7	3
8	7
9	2
10	20

What is the mean of the ages of the children?

Ans
✗ 1. 7.575 years
✗ 2. 6.575 years
✓ 3. 8.575 years
✗ 4. 5.575 years

Q.9 Find the average of natural numbers from 1 to 69. (both included)

Ans
✗ 1. 37
✓ 2. 35
✗ 3. 33
✗ 4. 31

Q.10 The edges of a rectangular box are in the ratio of 3 : 5 : 8, and its surface area is 632 cm^2. What will be the volume of the box?

Ans
✗ 1. 801 cm^3
✓ 2. 960 cm^3
✗ 3. 990 cm^3
✗ 4. 510 cm^3

Q.11 **A box filled with gift articles weighs 25 kg. If the weight of the box and the gift articles, respectively, are in the ratio 1 : 9, then the weight of the articles (in grams) is:**

Ans
✔ 1. 22500
✘ 2. 23500
✘ 3. 21500
✘ 4. 24500

Q.12 **Shankar covers a certain distance by a car driving at 40 km/h and he returns to the starting point riding on a scooter with a speed of 20 km/h. Find the average speed of the whole journey.**

Ans
✘ 1. $22\frac{2}{3}$ km/h
✘ 2. $29\frac{2}{3}$ km/h
✘ 3. $24\frac{2}{3}$ km/h
✔ 4. $26\frac{2}{3}$ km/h

Q.13 **In a state election between two parties, 83% of the voters cast their votes, out of which 4% of the votes were declared invalid. Party A got 156611 votes which were 83% of the total valid votes. Find the total number of votes enrolled in that election. (Consider integer part only)**

Ans
✘ 1. 23,46,807
✔ 2. 2,36,807
✘ 3. 2,34,888
✘ 4. 2,58,233

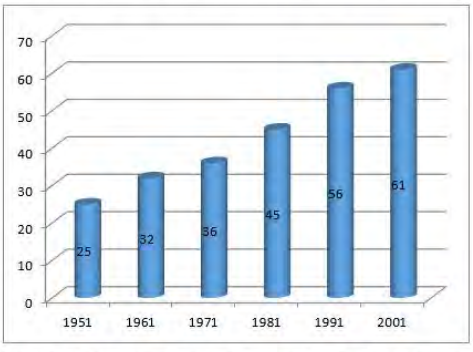
Q.14 **A man looks at the reflection of the top of the lamp-post on the mirror that is 6.6 m away from the foot of the lamppost. The man's height is 1.25 m and he is standing 2 m away from the mirror. Assuming that the mirror is placed on the ground, facing the sky and the man, and that the mirror and the lamp-post are in a same line, find the height of the lamp-post (in metres).**

Ans
✘ 1. 3.97
✘ 2. 4.28
✘ 3. 4.45
✔ 4. 4.13

Q.15 **A clock is sold for ₹550 cash or in the instalment scheme, for ₹250 cash down payment and ₹310 after one month. Find the rate of interest charged in the instalment scheme.**

Ans
✘ 1. 35%
✘ 2. 45%
✔ 3. 40%
✘ 4. 20%

Q.16 The following bar graph represents the population of a city (in lakhs) as per the census across different years.



What is the per cent increase in population from 1951 to 2001?

Ans
- ✗ 1. 35%
- ✗ 2. 22%
- ✓ 3. 144%
- ✗ 4. 120%

Q.17 **There is a circle with a centre T and a radius of 8 cm. Two tangents KE and KI are drawn from point K, which is 17 cm from the centre. The area of the quadrilateral TEKI is:**

Ans
- ✗ 1. 127.5 sq.cm
- ✗ 2. 130 sq.cm
- ✗ 3. 136 sq.cm
- ✓ 4. 120 sq.cm

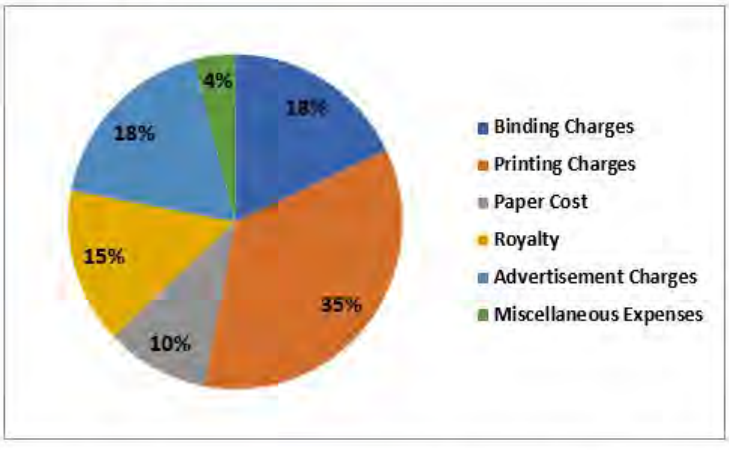
Q.18 **Three solid cubes of metal have sides 6 cm, 8 cm and 10 cm, respectively. They are melted to form a new cube. What is the surface area of this new cube?**

Ans
- ✗ 1. $812\ cm^2$
- ✗ 2. $950\ cm^2$
- ✗ 3. $915\ cm^2$
- ✓ 4. $864\ cm^2$

Q.19 What is the value of $\tan 570°$?

Ans
- ✗ 1. $-\frac{1}{\sqrt{3}}$
- ✗ 2. $-\sqrt{3}$
- ✓ 3. $\frac{1}{\sqrt{3}}$
- ✗ 4. $\sqrt{3}$

Q.20 The pie chart, given here, shows the various expenses of a publisher in the production of a magazine.



What is the difference between the measures of the central angles of sectors for binding charges and paper cost?

Ans
- ✗ 1. 27.2°
- ✗ 2. 28.6°
- ✗ 3. 27.6°
- ✓ 4. 28.8°

Q.21 **If the diameter of the base and curved surfaced area of a cylinder are 14cm and 352 cm^2,respectively, then the total surface area of the cylinder is equal to:**

Ans
- ✓ 1. 660 cm^2
- ✗ 2. 654 cm^2
- ✗ 3. 760 cm^2
- ✗ 4. 754 cm^2

Q.22 ΔABC is a right-angled triangle where $m\angle ABC = 90^0$. If $m(\overline{AB}) = 15$ cm, $m(\overline{BC}) =$ 20 cm, and $\overline{BD} \perp \overline{AC}$, intersecting $\overline{AC}$ at the point D, find $m(\overline{BD})$ (in cm).

Ans
- ✗ 1. 9
- ✓ 2. 12
- ✗ 3. 12.5
- ✗ 4. 10

Q.23 A and B can complete a piece of work in 15 days, B and C in 30 days and C and A in 45 days. In how many days will they complete the work if they start working together?

Ans
- ✓ 1. $16\frac{4}{11}$
- ✗ 2. $11\frac{1}{3}$
- ✗ 3. $8\frac{3}{11}$
- ✗ 4. $11\frac{2}{3}$

Q.24 **In the year 2000, Monu was 3 times his sister's age. In 2010, he was 24 years older than her. Find Monu's age in 2010.**

Ans
- ✗ 1. 52 years
- ✗ 2. 62 years
- ✓ 3. 46 years
- ✗ 4. 38 years

Q.25 Gaurav marks his goods 50% above the cost price and offers a discount of 30% on the marked price to his customers. What is his percentage gain?

Ans
- ✗ 1. 4%
- ✗ 2. 3%
- ✗ 3. 2%
- ✓ 4. 5%

Q.1 Hemis festival is associated with which of the following religions?

Ans
- ✗ 1. Jainism
- ✗ 2. Hinduism
- ✗ 3. Sikhism
- ✓ 4. Buddhism

Q.2 **Which of the following is the official language of Tripura?**

Ans
- ✗ 1. Mizo
- ✓ 2. Kokborak
- ✗ 3. Khasi
- ✗ 4. Garo

Q.3 **Where is the Save button in Microsoft Word?**

Ans
- ✗ 1. Top right corner of a Word window
- ✓ 2. Top left corner of a Word window
- ✗ 3. Bottom left corner of a Word window
- ✗ 4. Bottom right corner of a Word window

Q.4 **Which of the following currency note was discarded by the Government of India in November 2016?**

Ans
- ✓ 1. ₹500
- ✗ 2. ₹200
- ✗ 3. ₹2,000
- ✗ 4. ₹100

Q.5 **Giddha dance is a folk dance of which of the following states?**

Ans
- ✗ 1. Manipur
- ✓ 2. Punjab
- ✗ 3. Nagaland
- ✗ 4. Odisha

Q.6 **Ajit Kumar Mohanty took over the charge of Chairman, _____, in May 2023.**

Ans
- ✗ 1. Bhabha Atomic Research Centre
- ✗ 2. National Commission for Backward Classes
- ✗ 3. National Human Rights Commission of India
- ✓ 4. Atomic Energy Commission

Q.7 **Which is the natural habitat of the Asiatic Lion in India?**

Ans
- ✓ 1. Gir Forest
- ✗ 2. Sundarbans
- ✗ 3. Dudhwa National Park
- ✗ 4. Kaziranga National Park

Q.8 **Which of the following contains small droplets of liquid or particles of solid dispersed in a gas?**

Ans
- ✓ 1. Aerosol
- ✗ 2. Gel
- ✗ 3. Vapour
- ✗ 4. Foam

Q.9 **Secularism is a feature of the Indian Constitution, which means:**

Ans
- ✓ 1. The State does not promote any religion.
- ✗ 2. The State promotes the religion of the minority community.
- ✗ 3. The State promotes the religion of the majority community.
- ✗ 4. The State can promote any religion.

Q.10 **Which of the following occupies less memory when saving an MS-Word file?**

Ans
- ✓ 1. .docx
- ✗ 2. .docm
- ✗ 3. .doc
- ✗ 4. .docc

Q.11 **In which year was the Konkan Railway constructed?**

Ans
- ✓ 1. 1998
- ✗ 2. 1978
- ✗ 3. 1988
- ✗ 4. 2008

Q.12 **The Office of the Registrar General and Census Commissioner, India comes under the:**

Ans
- ✗ 1. Ministry of Finance
- ✓ 2. Ministry of Home Affairs
- ✗ 3. Ministry of Corporate Affairs
- ✗ 4. Ministry of Rural Development

Q.13 **According to the International Football Association Board (IFAB), which colour must the football goal post be?**

Ans
✗ 1. Blue
✓ 2. White
✗ 3. Red
✗ 4. Black

Q.14 Who introduced the concept of virtual water?

Ans
✗ 1. MS Swaminathan
✗ 2. Glubler Triplets
✓ 3. John Anthony Allan
✗ 4. Norman Borlaug

Q.15 **What is the name of the scheme aimed at conservation of wetlands, which was announced in the Union Budget 2023-24?**

Ans
✓ 1. Amrit Dharohar
✗ 2. Paryavaran Prahari
✗ 3. Dharohar
✗ 4. Paryavaran Suraksha

Q.16 **Which of the following statement(s) is/are INCORRECT vis-à-vis Fundamental Duties?**
1) The 44th amendment Act introduced Fundamental duties in the Constitution.
2) Fundamental Duties were expanded by the 86th amendment act.
3) Article 51A (a) entails respect its ideals and institutions, national flag and the national anthem.
4) Fundamental Duty obliges parents to provide opportunities for education to their child between 6-14 years of age.

Ans
✓ 1. 1
✗ 2. 2 and 3
✗ 3. 2 and 4
✗ 4. Only 3

Q.17 **Who among the following Delhi Sultanate rulers took the policy of 'blood and iron' to deal with the Mewati community?**

Ans
✗ 1. Qutubuddin Aibak
✗ 2. Rajiya
✓ 3. Balban
✗ 4. Iltutmish

Q.18 **Who is the Indian batsman after whom the Ranji Trophy is named?**

Ans
✗ 1. Ranjit Singh Bedi
✓ 2. Ranjit Sinhji
✗ 3. Ranjit Patel
✗ 4. Ranjit Wadekar

Q.19 Where is the ITC Sangeet Research Academy located?

Ans
- ✔ 1. Kolkata
- ✘ 2. Delhi
- ✘ 3. Bengaluru
- ✘ 4. Indore

Q.20 What is the minimum over rate per hour in a test match?

Ans
- ✘ 1. 17 overs per hour
- ✘ 2. 13 overs per hour
- ✔ 3. 15 over per hour
- ✘ 4. 10 overs per hour

Q.21 Which Governor General of India issued the famous Regulation XVII in 1829, which declared the practice of Sati illegal and punishable by the courts?

Ans
- ✘ 1. Lord Ellenborough
- ✔ 2. Lord William Bentinck
- ✘ 3. Lord Napier
- ✘ 4. Lord Minto

Q.22 In February 2023, Shiv Pratap Shukla was appointed governor of which state?

Ans
- ✘ 1. Haryana
- ✘ 2. Tamil Nadu
- ✘ 3. Bihar
- ✔ 4. Himachal Pradesh

Q.23 Identify the INCORRECT statement regarding invertebrates from the options given below.

Ans
- ✘ 1. They have radial or bilateral body symmetry.
- ✘ 2. They have a pair of solid nerve cords, situated ventrally and bearing segmentally arranged ganglia.
- ✘ 3. They have open circulatory system as there is no organisation in the distribution.
- ✔ 4. They possess a backbone and an internal skeleton.

Q.24 Which of the following is the second nearest star to Earth?

Ans
- ✔ 1. Proxima Centauri
- ✘ 2. Polaris
- ✘ 3. Sirius
- ✘ 4. Delta Velorum

Q.25 Bharat Muni, in his Natya Shastra, categorises musical instruments into four different parts. What is the categorisation of musical instruments by Bharat Muni based on?

Ans
- ✔ 1. Different sounds of the musical instruments
- ✘ 2. The shape of the musical instruments
- ✘ 3. Different materials used in the musical instruments
- ✘ 4. The uses of the musical instruments in different occasions, such as wedding, festivals and public gathering