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Combined Higher Secondary Level Examination 2024 Tier I

Venue Name	
Exam Date	09/07/2024
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.**

In geography class, / the teacher told the students, / "Switzerland lies / inside Germany, France, Austria, and Italy."

Ans
- ✗ 1. Switzerland lies
- ✗ 2. In geography class,
- ✗ 3. the teacher told the students,
- ✓ 4. inside Germany, France, Austria, and Italy.

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

Serena _____ from fever since the 5th of this month.

Ans
- ✗ 1. suffers
- ✗ 2. suffered
- ✓ 3. has been suffering
- ✗ 4. is suffering

Q.3 **The following sentence has been split into four segments. Identify the segment that contains a grammatical error.**
'You expressed your opinion/ very clearly /but I am sorry/ I cannot agree to you'.

Ans
- ✗ 1. very clearly
- ✗ 2. You expressed your opinion
- ✓ 3. I cannot agree to you
- ✗ 4. but I am sorry

Q.4 **Parts of the following sentence have been given as options. Select the option that contains an error.**
There are eight planets in our solar system and a Earth is the third planet from the Sun.

Ans
- ✗ 1. There are eight planets
- ✗ 2. planet from the Sun.
- ✓ 3. and a Earth is the third
- ✗ 4. in our solar system

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 disclaimer read that no animals were harmed (1)_____ the filming of that scene. However, they forgot that the brand of lipstick that was applied (2)_____ the heroines lips for that scene was manufactured from crushed cochineal bugs, which release a pigment commonly used in red lipstick. The other items in the film studio (3)_____ used animal fats during their manufacturing. The actors who (4)_____ that they are vegan in past interviews are unaware of their indirect involvement in such acts of cruelty against animals. The indirect cruelty against animals does not stop here. For example, the extensive disposal of plastic waste in oceans has made plastic a part of the animal food chain, which is detrimental (5)_____ our entire ecosystem.

SubQuestion No : 5

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

Ans
✔ 1. during
✘ 2. from
✘ 3. around
✘ 4. for

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 disclaimer read that no animals were harmed (1)_____ the filming of that scene. However, they forgot that the brand of lipstick that was applied (2)_____ the heroines lips for that scene was manufactured from crushed cochineal bugs, which release a pigment commonly used in red lipstick. The other items in the film studio (3)_____ used animal fats during their manufacturing. The actors who (4)_____ that they are vegan in past interviews are unaware of their indirect involvement in such acts of cruelty against animals. The indirect cruelty against animals does not stop here. For example, the extensive disposal of plastic waste in oceans has made plastic a part of the animal food chain, which is detrimental (5)_____ our entire ecosystem.

SubQuestion No : 6

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

Ans
✔ 1. to
✘ 2. upon
✘ 3. over
✘ 4. on

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 disclaimer read that no animals were harmed (1)_____ the filming of that scene. However, they forgot that the brand of lipstick that was applied (2)_____ the heroines lips for that scene was manufactured from crushed cochineal bugs, which release a pigment commonly used in red lipstick. The other items in the film studio (3)_____ used animal fats during their manufacturing. The actors who (4)_____ that they are vegan in past interviews are unaware of their indirect involvement in such acts of cruelty against animals. The indirect cruelty against animals does not stop here. For example, the extensive disposal of plastic waste in oceans has made plastic a part of the animal food chain, which is detrimental (5)_____ our entire ecosystem.

SubQuestion No : 7

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

Ans
✘ 1. least
✔ 2. also
✘ 3. long
✘ 4. too

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 disclaimer read that no animals were harmed (1)_____ the filming of that scene. However, they forgot that the brand of lipstick that was applied (2)_____ the heroines lips for that scene was manufactured from crushed cochineal bugs, which release a pigment commonly used in red lipstick. The other items in the film studio (3)_____ used animal fats during their manufacturing. The actors who (4)_____ that they are vegan in past interviews are unaware of their indirect involvement in such acts of cruelty against animals. The indirect cruelty against animals does not stop here. For example, the extensive disposal of plastic waste in oceans has made plastic a part of the animal food chain, which is detrimental (5)_____ our entire ecosystem.

SubQuestion No : 8

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

Ans
✗ 1. are confessing
✓ 2. confessed
✗ 3. had confessed
✗ 4. were confessing

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 disclaimer read that no animals were harmed (1)_____ the filming of that scene. However, they forgot that the brand of lipstick that was applied (2)_____ the heroines lips for that scene was manufactured from crushed cochineal bugs, which release a pigment commonly used in red lipstick. The other items in the film studio (3)_____ used animal fats during their manufacturing. The actors who (4)_____ that they are vegan in past interviews are unaware of their indirect involvement in such acts of cruelty against animals. The indirect cruelty against animals does not stop here. For example, the extensive disposal of plastic waste in oceans has made plastic a part of the animal food chain, which is detrimental (5)_____ our entire ecosystem.

SubQuestion No : 9

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

Ans
✗ 1. in
✓ 2. to
✗ 3. on
✗ 4. for

Q.10 Select the most appropriate option to fill in the blank.
The teacher asked the students to _____ attention towards the instructions given for the project.

Ans
✗ 1. make
✓ 2. pay
✗ 3. had
✗ 4. keen

Q.11 Select the INCORRECTLY spelt word.

Ans
✗ 1. Clandestine
✓ 2. Pronounciation
✗ 3. Denunciation
✗ 4. Dissociation

Q.12 **Select the most appropriate ANTONYM of the underlined word in the sentence.**
She was asked by the elders to wear a skirt <u>covering</u> her knees.

Ans
✔ 1. Exposing
✘ 2. Expecting
✘ 3. Expounding
✘ 4. Expanding

Q.13 **Select the most appropriate option that can substitute the underlined word in the following sentence.**
If it is sunny tomorrow, we <u>go</u> for a picnic.

Ans
✘ 1. will going
✔ 2. will go
✘ 3. will went
✘ 4. goes

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

Ans
✘ 1. Fortune
✘ 2. Excitement
✔ 3. Scarcity
✘ 4. Prosperity

Q.15 **Select the most appropriate option to substitute the underlined segment in the following sentence.**

A gift from my teacher on the eve of the new year was <u>a complete surprise</u>.

Ans
✔ 1. a bolt from the blue
✘ 2. spilling of beans
✘ 3. like striking one's colours
✘ 4. like a cat on hot bricks

Q.16 **Select the correct spelling of the underlined word in the following sentence.**
I am in a hurry so I will see you <u>tomorow</u>.

Ans
✘ 1. tomoorrow
✘ 2. toomorow
✔ 3. tomorrow
✘ 4. tomoorow

Q.17 **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'.**
There is an old rivalry <u>between the three families</u> for ages.

Ans
✘ 1. of the three families
✔ 2. among the three families
✘ 3. in the three families
✘ 4. No substitution required

Q.18 **Select the option that will improve the underlined part of the given sentence.**

It is my <u>custom</u> to get up early in the morning.

Ans
✗ 1. perfection
✗ 2. addiction
✓ 3. habit
✗ 4. oddity

Q.19 **Select the most appropriate ANTONYM of the underlined word in the given sentence.**
The company has to be able to <u>compete</u> globally.

Ans
✗ 1. Attack
✓ 2. Support
✗ 3. Pervert
✗ 4. Impede

Q.20 **Identify the most appropriate synonym of the following word.**
Sceptical

Ans
✗ 1. Stoic
✗ 2. Insensitive
✓ 3. Incredulous
✗ 4. Garrulous

Q.21 **Select the appropriate option that can substitute the underlined phrase in the following sentence.**
Even though she's a celebrity, she <u>doesn't draw any attention towards herself</u> .

Ans
✓ 1. keeps a low profile
✗ 2. keeps up with the Joneses
✗ 3. keeps hot under the collar
✗ 4. is hard to come by

Q.22 **Read the given sentence carefully. Change the meaning of the sentence by replacing the underlined word with its ANTONYM from the following options.**
William Shakespeare is considered to be the most <u>celebrated</u> dramatist in the world of literature.

Ans
✗ 1. illustrious
✓ 2. inglorious
✗ 3. acclaimed
✗ 4. laureate

Q.23 **Select the most appropriate ANTONYM of the underlined word.**
The army <u>advanced</u> into enemy territory.

Ans
✓ 1. Retreated
✗ 2. Protruded
✗ 3. Commuted
✗ 4. Arose

Q.24 **Which of the following sentences contains the ANTONYM of the word 'important'?**

Ans
✗ 1. Namita also makes some very salient points in her newly revised preface.
✗ 2. Choose the right colour to make your bike stand out!
✓ 3. You always make me do all the trivial stuff.
✗ 4. I have some urgent questions for you.

Q.25 **Select the most appropriate option that can substitute the underlined word in the given sentence.**
There was enough room in the <u>spacious</u> flat for all of our furniture.

Ans
✗ 1. cozy
✗ 2. tiny
✓ 3. roomy
✗ 4. cramped

Q.1 **In a certain code language,**
'A + B' means 'A is the sister of B',
'A – B' means 'A is the brother of B',
'A × B' means 'A is the father of B',
'A ÷ B' means 'A is the wife of B'.
Based on the above, how is P related to T if 'P + Q ÷ R × S – T'?

Ans
✗ 1. Father's sister
✓ 2. Mother's sister
✗ 3. Sister
✗ 4. Mother

Q.2 **The position of how many letters will remain unchanged if each of the letters in the word ENGLISH is arranged in alphabetical order?**

Ans
✗ 1. Two
✗ 2. Four
✗ 3. Three
✓ 4. One

Q.3 What will come in the place of the question mark (?) in the following equation, if '+' and '–' are interchanged and '×' and '÷' are interchanged?

$20 - 80 \times 16 \div 5 + 15 = ?$

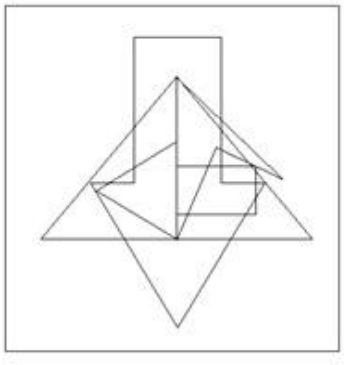
Ans
✗ 1. 32
✗ 2. 35
✓ 3. 30
✗ 4. 36

Q.4 Select the option in which the given figure (X) is embedded. (Rotation is NOT allowed).

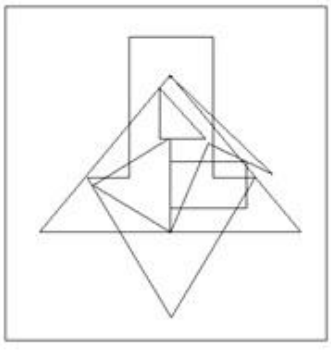


Ans

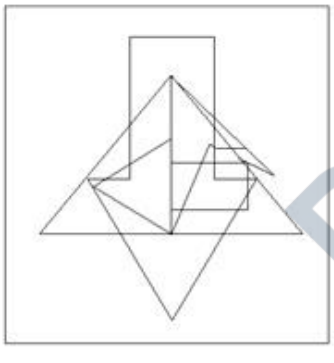
✔ 1.



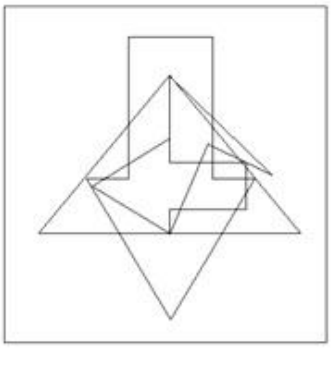
✘ 2.



✘ 3.



✘ 4.



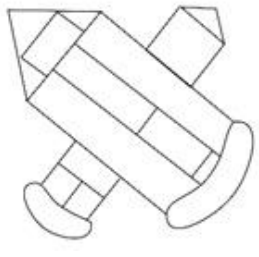
Q.5 **Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.**
Statements:
All papers are charts.
Some charts are notebooks.
Some notebooks are files.
Conclusions:
(I) Some charts are files.
(II) All papers being notebooks is a possibility.

Ans
✗ 1. None of the conclusions follow
✗ 2. Only conclusion I follows
✗ 3. Both conclusions I and II follow
✓ 4. Only conclusion II follows

Q.6 What will come in the place of '?' in the following equation, if '+' and '–' are interchanged?
$47 + 10 \times 3 - 32 \div 8 = ?$

Ans
✗ 1. 19
✓ 2. 21
✗ 3. 31
✗ 4. 27

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



Ans
✗ 1. 8
✗ 2. 7
✓ 3. 6
✗ 4. 5

Q.8 Which of the following numbers will replace the question mark (?) in the given series?
41 49 65 89 121 161 ?

Ans
✓ 1. 209
✗ 2. 189
✗ 3. 195
✗ 4. 215

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.)
(2, 3, 36)
(1, 7, 49)

Ans
✗ 1. (4, 4, 252)
✗ 2. (1, 9, 59)
✓ 3. (3, 5, 225)
✗ 4. (5, 4, 260)

Q.10 What should come in place of the question mark (?) in the given series?
69, 78, 103, 152, ?

Ans
✗ 1. 323
✓ 2. 233
✗ 3. 231
✗ 4. 332

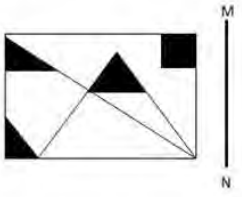
Q.11 In a certain code language, 'BILLION' is coded as '3264581' and 'MILLION' is coded as '3249581'. What is the code for 'M' in that language?

Ans
✗ 1. 6
✗ 2. 5
✓ 3. 9
✗ 4. 3

Q.12 **What should come in place of the question mark (?) in the given series based on the English alphabetical order?**
GDJ, KHN, OLR, SPV, ?

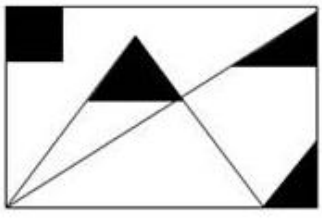
Ans
✗ 1. WUZ
✓ 2. WTZ
✗ 3. VSX
✗ 4. VTY

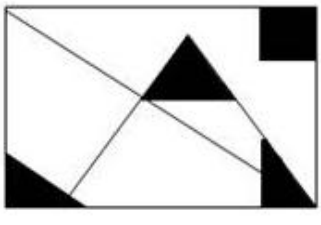
Q.13 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

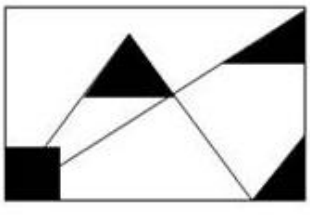


Ans

✗ 1.


✓ 2.


✗ 3.


✗ 4.


Q.14 **JNLO is related to ILIK in a certain way based on the English alphabetical order. In the same way, NRPS is related to MPMO. To which of the following is LPNQ related, following the same logic?**

Ans

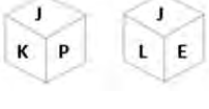
✓ 1. KNKM

✗ 2. KMKN

✗ 3. KOKM

✗ 4. KMKO

Q.15 Six letters E, J, K, L, M and P are written on different faces of a dice. Two positions of this dice are shown in the figure. Which is the letter on the face opposite to the face containing M?



Ans

✓ 1. J

✗ 2. P

✗ 3. K

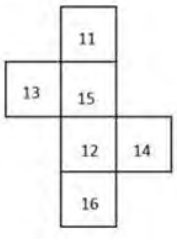
✗ 4. E

Q.16 **Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.**

ABC_C_CC_DCBG_CA

Ans
✗ 1. ECDC
✗ 2. DCED
✗ 3. EDCE
✓ 4. DCEE

Q.17 What would be the number on the opposite side of '16' if the given sheet is folded to form a cube?



Ans
✗ 1. 11
✗ 2. 14
✓ 3. 15
✗ 4. 13

Q.18 **If 'Y' stands for '÷', 'N' stands for '×', 'M' stands for '+' and 'G' stands for '–', what will come in place of the question mark (?) in the following equation?**
100 N 80 G 40 Y 20 M 10 = ?

Ans
✗ 1. 8976
✓ 2. 8008
✗ 3. 5776
✗ 4. 987

Q.19 **If 19 February 2004 was a Thursday, then what was the day of the week on 2 March 2019?**

Ans
✗ 1. Friday
✗ 2. Monday
✓ 3. Saturday
✗ 4. Thursday

Q.20 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)

Engage : Involve

Ans
✓ 1. Diverse : Varied
✗ 2. Entirety : Fragment
✗ 3. Secure : Vulnerable
✗ 4. Shrink : Grow

Q.21 **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. LIK

✗ 2. EBD

✗ 3. PMO

✓ 4. ROS

Q.22 **Select the option that is related to the third number in the same way as the second number is related to the first number.**
10 : 26 :: 50 : ?

Ans

✗ 1. 344

✗ 2. 343

✗ 3. 341

✓ 4. 342

Q.23 **Select the option in which the given figure (X) is embedded. (Rotation is NOT allowed).**

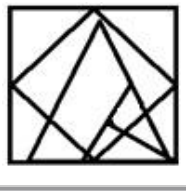


Ans

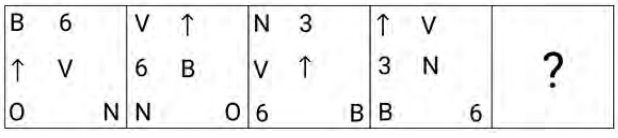
✗ 1. 

✓ 2. 

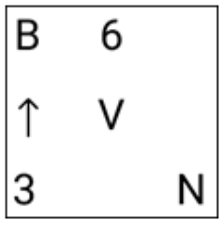
✗ 3. 

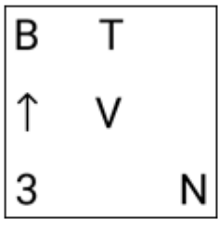
✗ 4. 

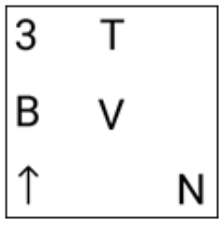
Q.24 Identify the figure given in the options that when put in place of the question mark (?) will logically complete the series.

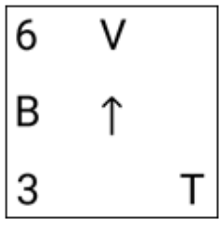


Ans

✗ 1.


✓ 2.


✗ 3.


✗ 4.


Q.25 What should come in place of the question mark (?) in the given series?

24, 40, 56, 72, ?, 104

Ans

✗ 1. 86

✓ 2. 88

✗ 3. 87

✗ 4. 89

Q.1 Rohan can alone finish a work in 12 days and Hari can alone in 16 days. They both work for 3 days and then Rohan left. After that only Hari works and finishes the work. The total work will be completed in:

Ans

✗ 1. $12\frac{1}{3}$ days

✗ 2. 9 days

✓ 3. 12 days

✗ 4. $12\frac{2}{3}$ days

Q.2 **In a 2 km linear race, if P completes the race in 200 second and Q in 220 seconds, then the distance by which P beats Q is:**

Ans

✔ 1. $181\frac{9}{11}$ metres

✘ 2. $167\frac{6}{11}$ metres

✘ 3. $191\frac{7}{11}$ metres

✘ 4. $173\frac{7}{11}$ metres

Q.3 **A natural number n divides 732 and leaves 12 as a remainder. How many values of n are possible?**

Ans

✔ 1. 20

✘ 2. 16

✘ 3. 18

✘ 4. 22

Q.4

If $cot\alpha = \frac{P}{Q}$, then find the value of $\frac{Pcos\alpha - Qsin\alpha}{Pcos\alpha + Qsin\alpha} - \frac{P^2 - Q^2}{P^2 + Q^2} + 3$.

Ans

✘ 1. 0

✔ 2. 3

✘ 3. $\frac{P^2}{P^2+Q^2}$

✘ 4. $\frac{P}{Q}$

Q.5 A trader buys 500 kg cotton for ₹8,000. If 10% of this cotton is spoiled due to rain, at what rate (₹/kg) should he sell the rest to earn a 20% profit?

Ans

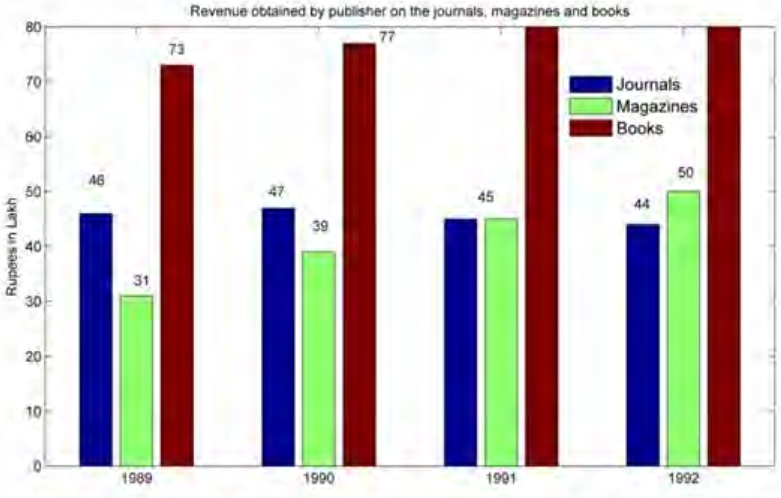
✔ 1. $21\frac{1}{3}$

✘ 2. $23\frac{1}{3}$

✘ 3. $22\frac{1}{3}$

✘ 4. $25\frac{1}{3}$

Q.6 Answer the following question on the basis of the bar graph given.



The number of years in which there was an increase in the revenue from at least two categories is:

Ans
✗ 1. 1
✓ 2. 2
✗ 3. 3
✗ 4. 4

Q.7 **The hypotenuse of a right triangle is 6m more than twice the shortest side. If the third side is 2 m less than the hypotenuse, find the area(in m^2) of the triangle.**

Ans
✗ 1. 110
✗ 2. 100
✓ 3. 120
✗ 4. 130

Q.8 The table shows the percentage distribution of the population (only male and female) according to Gender and Literacy.

State	Percentage literate	Gender	
		Literate	Illiterate
		M : F	M : F
A	55	5 : 6	4 : 5
B	72	1 : 1	3 : 2
C	78	4 : 3	3 : 2

The total population in state C, if the illiterate female count in state C is 4,40,000, is:

Ans
✗ 1. 3600000
✓ 2. 5000000
✗ 3. 4600000
✗ 4. 6000000

Q.9 **A covered wooden box has the inner measures as 128 cm, 90 cm, 25 cm and the thickness of wood is 5.5 cm. Find the volume of the wood.**

Ans

✗ 1. $192392\ cm^3$

✗ 2. $819832\ cm^3$

✗ 3. $329431\ cm^3$

✓ 4. $217404\ cm^3$

Q.10 **A cylinder has a curved surface area equal to 350% of the curved surface area of another cylinder. If their radii are in the ratio 3 : 1, then the volume of the smaller cylinder is approximately _____% of the larger cylinder (the smaller cylinder has its radius and height smaller when compared to the larger).**

Ans

✗ 1. 10.16

✗ 2. 8.86

✗ 3. 7.28

✓ 4. 9.52

Q.11 **Two numbers are, respectively, 30% and 60% more than a third number. The ratio of the two numbers is:**

Ans

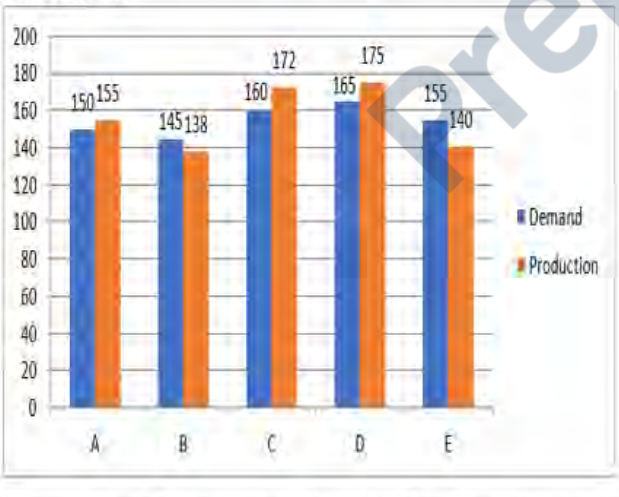
✓ 1. 13 : 16

✗ 2. 12 : 13

✗ 3. 11 : 15

✗ 4. 13 : 17

Q.12 The following graph shows the demand and production of buses of five companies in 2022 (in thousands). Study the given graph carefully and answer the question that follows



The number of companies whose production of buses is equal to or more than the average demand of buses of all five companies is:

Ans

✗ 1. 1

✗ 2. 2

✗ 3. 4

✓ 4. 3

Q.13 The marked price of an item is 1.4 times the cost price. In order to earn 23.2% profit, what per cent discount can a shopkeeper allow?

Ans
- ✗ 1. 15%
- ✗ 2. 17%
- ✗ 3. 13%
- ✓ 4. 12%

Q.14 **If 6428A83 is divisible by 9, then the value of A is equal to :**

Ans
- ✗ 1. 6
- ✓ 2. 5
- ✗ 3. 7
- ✗ 4. 3

Q.15 **The length of a rectangular shaped park exceeds its breadth by 15 m. If the perimeter of the park is 110 m, find the length of the park (in m).**

Ans
- ✓ 1. 35
- ✗ 2. 40
- ✗ 3. 25
- ✗ 4. 20

Q.16 **A person saves 45% of his income. Next year, his income increases by 200%. He increases his savings by five times the previous year's savings. By what percentage (correct to one place of decimal) has he increased/decreased his expenditure?**

Ans
- ✗ 1. Increased, 63.4%
- ✓ 2. Increased, 36.4%
- ✗ 3. Decreased, 63.4%
- ✗ 4. Decreased, 36.4%

Q.17 **In how much time (in years) will ₹7,200 amount to ₹8,928 at simple interest at the rate of 8% per annum?**

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

Q.18 **If lateral surface area of a cube is 144 cm^2, then find its volume.**

Ans
- ✗ 1. 864 cm^3
- ✗ 2. 1728 cm^3
- ✗ 3. 117.58 cm^3
- ✓ 4. 216 cm^3

Q.19 **A bigger circle centre at O and a smaller circle centre at P touch each other externally such that the length of their common tangent LM is 12 cm. If the radius of the bigger circle is 18 cm, then what will be the radius (in cm) of the smaller circle?**

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

Q.20 A battery manufacturer manufactures five different types of batteries. The total revenue for the year 2020 is ₹25,00,000 and 20,000 units were exported in 2020. The distribution of revenue and units for the five different types of batteries is shown in the charts.



Which type of the battery provides the highest revenue per unit of export?

Ans
- ✗ 1. Lead acid
- ✗ 2. Li-ion
- ✓ 3. Sodium
- ✗ 4. M-Air

Q.21 **If the areas of three adjacent faces of a cuboid are 5 cm^2, 15 cm^2, 27 cm^2, respectively, the surface area of the cuboid is:**

Ans
- ✗ 1. 75 cm^2
- ✗ 2. 47 cm^2
- ✗ 3. 45 cm^2
- ✓ 4. 94 cm^2

Q.22 **In a circle, the chords AB and CD intersect each other at point L (internally). If AL = 9 cm, LB = 7 cm and LD = 3 cm, then find CL (in cm).**

Ans
- ✗ 1. 18
- ✓ 2. 21
- ✗ 3. 20
- ✗ 4. 19

Q.23 **In an election between two candidates, 10% of the voters did not cast their votes and 5% of the votes polled were found invalid. The successful candidate got 52.5% of the valid votes and won by a majority of 1710 votes. The number of voters enrolled on the voters list was:**

Ans
- ✗ 1. 42000
- ✗ 2. 48000
- ✗ 3. 36000
- ✓ 4. 40000

Q.24 In what proportion must tea worth ₹27 and ₹31 per kg be mixed so as to gain 25% by selling the mixture at ₹36 per kg?

Ans
1. 2 : 11
2. 11 : 9
3. 3 : 7
4. 9 : 11

Q.25 **Find the length of the sides of a triangle, if its angles are in the ratio 2 : 4 : 6 and its circumradius is 12 cm.**

Ans
1. 6cm, $6\sqrt{3}$c m, 12 cm
2. 5 cm, 6 cm, 10 cm
3. 15 cm, $15\sqrt{3}$ cm, 30 cm
4. 12 cm, $12\sqrt{3}$ cm, 24 cm

Q.1 **Identify the INCORRECT pair regarding the material media and their refractive index?**

Ans
1. Kerosene – 1.44
2. Benzene – 2.42
3. Sapphire – 1.77
4. Ruby – 1.71

Q.2 **Where can you find the options 'From Beginning' and 'From Current Slide' to run a slide show in MS PowerPoint?**

Ans
1. Slide Show tab
2. Home tab
3. View tab
4. Slide Sorter tab

Q.3 **In November 2022, the Supreme Court upheld the 10% reservation of EWS quota. This EWS reservation was granted on the basis of recommendations from which of the following commissions?**

Ans
1. Sarkaria commission
2. Kelkar commission
3. Mandal commission
4. Sinho commission

Q.4 **On the 74th republic day of India, President of Egypt, _____ was the Chief Guest at the Republic Day parade.**

Ans
1. Muhammad Hosni El Sayed Mubarak
2. Adly Mahmoud Mansour
3. Abdel Fattah El-Sisi
4. Gamal Abdel Nasser Husain

Q.5 **The Preamble of the Constitution describes India as:**

Ans
- ✗ 1. an atheist state
- ✗ 2. a unitary state
- ✓ 3. a secular state
- ✗ 4. a federal state

Q.6 **Who is known as the Father of Modern Dance in India?**

Ans
- ✗ 1. Kelucharan Mohapatra
- ✓ 2. Uday Shankar
- ✗ 3. Atombapu Sharma
- ✗ 4. Pandit Birju Maharaj

Q.7 The number of white pawns in chess is _____.

Ans
- ✗ 1. 14
- ✗ 2. 12
- ✓ 3. 8
- ✗ 4. 10

Q.8 **Which of the following is a style of Carnatic music?**

Ans
- ✗ 1. Dhamar
- ✗ 2. Chaturang
- ✓ 3. Svarajati
- ✗ 4. Dhrupad

Q.9 Which of the following statements are true about the positive impact of the Green Revolution (GR) on yield levels in India?

i. During the post GR period, the yield of rice grew at a much faster rate than that of wheat.

ii. GR technology had penetrated more in wheat crop than in the rice crop.

iii. During post GR period, the area under rice achieved a relatively slow growth when compared to the area under wheat.

Ans
- ✓ 1. Only ii and iii
- ✗ 2. Only i and iii
- ✗ 3. Only i and ii
- ✗ 4. i, ii and iii

Q.10 **The founder of the Pallava dynasty was:**

Ans
- ✗ 1. Balasimha
- ✗ 2. Simharaj
- ✗ 3. Singhamvishnu
- ✓ 4. Simhavishnu

Q.11 The Press and Periodicals Registration Bill, 2023 replaced which act with a simplified law that decriminalizes various provisions and brings digital media under its ambit?

Ans
- ✗ 1. Newspaper (Incitement to Offences) Act, 1908
- ✗ 2. Censorship of Press Act, 1799
- ✗ 3. Press (Objectionable Matters) Act, 1951
- ✓ 4. Press and Registration of Books Act, 1867

Q.12 Judicial Review, a salient feature of the Constitution of India, has been borrowed from which of the following countries?

Ans
- ✓ 1. The US
- ✗ 2. Ireland
- ✗ 3. South Africa
- ✗ 4. Canada

Q.13 In honey bees, _____

Ans
- ✓ 1. males are haploid and females are diploid.
- ✗ 2. males are tetraploid and females are triploid.
- ✗ 3. males are diploid and females are haploid.
- ✗ 4. males are triploid and females are tetraploid.

Q.14 What should you click to choose the date for sorting in Gmail?

Ans
- ✗ 1. The filter icon
- ✓ 2. The 'Date within' field
- ✗ 3. The '1 Day' dropdown menu
- ✗ 4. The calendar icon

Q.15 Which Act opposed by Mahatma Gandhi in 1919 was a direct attack on the civil liberties and democratic rights of the Indian people?

Ans
- ✗ 1. Criminal Tribes Act
- ✗ 2. Pitt's India Act
- ✓ 3. Rowlatt Act
- ✗ 4. Defence of India Act

Q.16 Oil India Limited (OIL) is under the administrative structure of:

Ans
- ✗ 1. Ministry of Commerce and Industry
- ✗ 2. Ministry of Power
- ✗ 3. Ministry of New and Renewable Energy
- ✓ 4. Ministry of Petroleum and Natural Gas

Q.17 Which of the following organisations said that India CANNOT have a parallel judicial system - one for the rich and the other for the poor?

Ans
- ✗ 1. Gujarat High Court
- ✓ 2. Supreme Court
- ✗ 3. Himachal High Court
- ✗ 4. Kerala High Court

Q.18 Which of the following rivers is called 'Singi Khamban' in Tibet?

Ans
- ✔ 1. Indus
- ✘ 2. Brahmaputra
- ✘ 3. Kosi
- ✘ 4. Sutlej

Q.19 In which year was MS Dhoni awarded Padma Shri Award?

Ans
- ✔ 1. 2009
- ✘ 2. 2010
- ✘ 3. 2007
- ✘ 4. 2012

Q.20 Who calculated the approximate location of the planet Neptune by studying gravity-induced disturbances in the motion of Uranus?

Ans
- ✘ 1. John Couch Adams
- ✘ 2. Percival Lowell
- ✘ 3. Johann Gottfried Galle
- ✔ 4. Urbain-Jean-Joseph Le Verrier

Q.21 In which year was the All India Football Federation (AIFF) formed?

Ans
- ✘ 1. 1947
- ✔ 2. 1937
- ✘ 3. 1957
- ✘ 4. 1967

Q.22 Which of the following is called the cyclic arrangement of time units in Hindustani Classical music?

Ans
- ✔ 1. Tala
- ✘ 2. Raga
- ✘ 3. Jati
- ✘ 4. Alap

Q.23 Which of the following refers to the purchase and sale of government securities?

Ans
- ✘ 1. Bank rate
- ✔ 2. Open market operations
- ✘ 3. Reserve ratio
- ✘ 4. High powered money

Q.24 According to the Census of India-2011, what is the sex ratio (Females per 1000 males) of India?

Ans
- ✘ 1. 934
- ✘ 2. 927
- ✘ 3. 933
- ✔ 4. 943

Q.25 What was India's population growth rate (in percentage) during 2001-2011?

Ans

✗ 1. 23.87%

✗ 2. 24.66%

✓ 3. 17.64%

✗ 4. 21.54%