Adda247

Combined Higher Secondary Level Examination 2024 Tier I

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

Section : **English Language**

Q.1 Parts of the following sentence have been given as options. Select the option that contains an error.
Today she said to her friend, "You're the sweetest person I have met ever".

Ans ✔ 1. I have met ever".

✘ 2. her friend, "You're

✘ 3. Today she said to

✘ 4. the sweetest person

Q.2 The following sentence has been split into four segments. Identify the segment that contains an INCORRECT preposition.
Please remember to take / your notice to the reception area / if you want it to be displayed / upon the bulletin board.

Ans ✘ 1. Please remember to take

✔ 2. upon the bulletin board

✘ 3. if you want it to be displayed

✘ 4. your notice to the reception area

Q.3 The given sentence is divided into four segments. Select the option that has the segment with a grammatical error.
The class / teacher was / wounded in / a leg.

Ans ✔ 1. a leg.

✘ 2. teacher was

✘ 3. wounded in

✘ 4. The class

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

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

Ans ✘ 1. Don't go

✘ 2. outside

✔ 3. raining heavy.

✘ 4. because it is

Comprehension:

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

The tuatara, which lives on New Zealand's islands, is affectionately known as Living fossil. It is called that because it is the only (1)_____ reptile in a group of reptiles that dates back about 220 million years to the time of the dinosaurs. The colour of the tuatara is grey or olive green. It (2)_____ to a length of around 60 cm. The fact that this lizard has three eyes is its most (3)_____ feature. The pineal eye is the name given to the cone-shaped third eye. This eye is in a space between the brain and head. It has an eyelid over the third eye, which closes on a horizontal level. The tuatara has teeth that are (4)_____ from those of other reptiles. The lower jaw has only one row of teeth, while the upper jaw has two rows.

The tuatara is most active at night. It eats the eggs of birds, frogs, rats and insects. A tuatara's average lifespan is less than 77 years, but some species can live up to 100 years. In the spring, the female tuatara lays 8 to 15 eggs. These eggs are (5)_____ during summer.

SubQuestion No : 5

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

Ans   ✔ 1. living

       ✘ 2. being

       ✘ 3. entity

       ✘ 4. life

Comprehension:

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

The tuatara, which lives on New Zealand's islands, is affectionately known as Living fossil. It is called that because it is the only (1)_____ reptile in a group of reptiles that dates back about 220 million years to the time of the dinosaurs. The colour of the tuatara is grey or olive green. It (2)_____ to a length of around 60 cm. The fact that this lizard has three eyes is its most (3)_____ feature. The pineal eye is the name given to the cone-shaped third eye. This eye is in a space between the brain and head. It has an eyelid over the third eye, which closes on a horizontal level. The tuatara has teeth that are (4)_____ from those of other reptiles. The lower jaw has only one row of teeth, while the upper jaw has two rows.

The tuatara is most active at night. It eats the eggs of birds, frogs, rats and insects. A tuatara's average lifespan is less than 77 years, but some species can live up to 100 years. In the spring, the female tuatara lays 8 to 15 eggs. These eggs are (5)_____ during summer.

SubQuestion No : 6

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

Ans   ✘ 1. creates

       ✔ 2. develops

       ✘ 3. links

       ✘ 4. nourishes

Comprehension:

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

The tuatara, which lives on New Zealand's islands, is affectionately known as Living fossil. It is called that because it is the only (1)_____ reptile in a group of reptiles that dates back about 220 million years to the time of the dinosaurs. The colour of the tuatara is grey or olive green. It (2)_____ to a length of around 60 cm. The fact that this lizard has three eyes is its most (3)_____ feature. The pineal eye is the name given to the cone-shaped third eye. This eye is in a space between the brain and head. It has an eyelid over the third eye, which closes on a horizontal level. The tuatara has teeth that are (4)_____ from those of other reptiles. The lower jaw has only one row of teeth, while the upper jaw has two rows.

The tuatara is most active at night. It eats the eggs of birds, frogs, rats and insects. A tuatara's average lifespan is less than 77 years, but some species can live up to 100 years. In the spring, the female tuatara lays 8 to 15 eggs. These eggs are (5)_____ during summer.

SubQuestion No : 7

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

Ans   ✔ 1. intriguing

       ✘ 2. absorbing

       ✘ 3. diverting

       ✘ 4. escalating

Comprehension:

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

The tuatara, which lives on New Zealand's islands, is affectionately known as Living fossil. It is called that because it is the only (1)_____ reptile in a group of reptiles that dates back about 220 million years to the time of the dinosaurs. The colour of the tuatara is grey or olive green. It (2)_____ to a length of around 60 cm. The fact that this lizard has three eyes is its most (3)_____ feature. The pineal eye is the name given to the cone-shaped third eye. This eye is in a space between the brain and head. It has an eyelid over the third eye, which closes on a horizontal level. The tuatara has teeth that are (4)_____ from those of other reptiles. The lower jaw has only one row of teeth, while the upper jaw has two rows.

The tuatara is most active at night. It eats the eggs of birds, frogs, rats and insects. A tuatara's average lifespan is less than 77 years, but some species can live up to 100 years. In the spring, the female tuatara lays 8 to 15 eggs. These eggs are (5)_____ during summer.

SubQuestion No : 8

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

Ans ✗ 1. separate

✓ 2. distinct

✗ 3. discrete

✗ 4. sharp

Comprehension:

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

The tuatara, which lives on New Zealand's islands, is affectionately known as Living fossil. It is called that because it is the only (1)_____ reptile in a group of reptiles that dates back about 220 million years to the time of the dinosaurs. The colour of the tuatara is grey or olive green. It (2)_____ to a length of around 60 cm. The fact that this lizard has three eyes is its most (3)_____ feature. The pineal eye is the name given to the cone-shaped third eye. This eye is in a space between the brain and head. It has an eyelid over the third eye, which closes on a horizontal level. The tuatara has teeth that are (4)_____ from those of other reptiles. The lower jaw has only one row of teeth, while the upper jaw has two rows.

The tuatara is most active at night. It eats the eggs of birds, frogs, rats and insects. A tuatara's average lifespan is less than 77 years, but some species can live up to 100 years. In the spring, the female tuatara lays 8 to 15 eggs. These eggs are (5)_____ during summer.

SubQuestion No : 9

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

Ans ✗ 1. pollinated

✓ 2. fertilised

✗ 3. germinated

✗ 4. fructified

Q.10 Select the most appropriate meaning of the given idiom.

Around the clock

Ans ✗ 1. Something that is done at night

✗ 2. Something that is done within one hour

✗ 3. Something that is time bound

✓ 4. Something that goes on day and night

Q.11 Select the most appropriate meaning of the given idiom.
Best thing since sliced bread

Ans ✗ 1. Breaking news

✗ 2. Something to be cautious about

✓ 3. Extremely good, interesting

✗ 4. Rated well amongst cooks

Q.12 Select the most appropriate synonym of the given word.

Ablaze

Ans ✗ 1. Extinguished

✓ 2. Burning

✗ 3. Brazen

✗ 4. Sharp

Q.13 **Select the most appropriate ANTONYM of the underlined word in the given sentence.**
Mr. Stein is a very cold and <u>hard</u> man.

Ans ✗ 1. Clement

✗ 2. Relaxed

✓ 3. Charitable

✗ 4. Tolerant

Q.14 **Select the most appropriate option to fill in the blank.**

Many developing nations are having a _____ economy these days.

Ans ✗ 1. boosting

✗ 2. resounding

✗ 3. ringing

✓ 4. booming

Q.15 **Read the sentence carefully and select the synonym of the underlined word from the given alternatives.**

Everyone revered my <u>austere</u> father who was the high priest of the famous Shiva temple.

Ans ✓ 1. Stern

✗ 2. Composed

✗ 3. Morose

✗ 4. Aged

Q.16 **Select the most appropriate option that can substitute the underlined segment in the given sentence.**
<u>Little</u> that I knew of the English language was not sufficient to make me an English teacher.

Ans ✗ 1. So little

✗ 2. A little

✓ 3. The little

✗ 4. Very little

Q.17 **Select the most appropriate ANTONYM of the underlined word in the following sentence.**
My most <u>vivid</u> recollection of that summer is the ocean.

Ans ✓ 1. Vague

✗ 2. Eloquent

✗ 3. Pictorial

✗ 4. Lucid

Q.18 **Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No improvement required'.**
The annual seed festival hosted in Auroville <u>promote sharing of traditional</u> knowledge and sustainable farming practices.

Ans ✓ 1. promotes sharing of traditional

✗ 2. promotes sharing of traditionally

✗ 3. promotes sharing of tradition

✗ 4. No improvement required

Q.19 **Select the INCORRECTLY spelt word.**

Ans ✓ 1. Magnanimos

✗ 2. Accompanied

✗ 3. Fascination

✗ 4. Psychology

Q.20 Select the most appropriate ANTONYM of the given word.
Sacred

Ans ✗ 1. Grave

✗ 2. Narrow

✗ 3. Holy

✓ 4. Profane

Q.21 Select the INCORRECTLY spelt word.

Ans ✗ 1. Chief

✗ 2. Relevant

✗ 3. Colleague

✓ 4. Judgment

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

Ans ✗ 1. Wise

✗ 2. Animated

✗ 3. Spry

✓ 4. Dead

Q.23 Select the most appropriate ANTONYM of the underlined word in the following sentence.

You should never visit her without her <u>consent</u>.

Ans ✗ 1. Approval

✗ 2. Permission

✗ 3. Knowledge

✓ 4. Refusal

Q.24 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.
He was the fastest <u>between</u> all the contestants.

Ans ✗ 1. No substitution

✗ 2. since

✓ 3. amongst

✗ 4. from

Q.25 Select the most appropriate option that can substitute the underlined segment in the given sentence.
There is <u>no place</u> on the bench.

Ans ✗ 1. more space

✗ 2. no life

✗ 3. more place

✓ 4. no room

Section : **General Intelligence**

Q.1 If 29 December 1956 was a Saturday, then what was the day of the week on 16 January 1967?

Ans ✗ 1. Friday

✗ 2. Saturday

✓ 3. Monday

✗ 4. Sunday

Q.2 Select the option figure in which the given figure is embedded as its part (rotation is NOT allowed).

Ans

✗ 1.

✔ 2.

✗ 3.

✗ 4.

Q.3 In a certain code language, 'GCJL' is coded as '14-6-20-24' and 'WTRO' is coded as '46-40-36-30'. What is the code for 'BZKQ' in the given code language?

Ans

✔ 1. 4-52-22-34

✗ 2. 2-52-22-34

✗ 3. 4-52-21-32

✗ 4. 3-51-20-33

Q.4 What will come in the place of the question mark (?) in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged?

$800 \times 16 - 8 \div 12 + 18 = ?$

Ans

✔ 1. 128

✗ 2. 126

✗ 3. 129

✗ 4. 127

Q.5 What should come in place of ? in the given series?

8, 15, 29, 57, 113 ?

Ans

✗ 1. 222

✔ 2. 225

✗ 3. 223

✗ 4. 224

Q.6 'MANGO' is related to '35' in a certain way based on the English alphabetical order. In the same way, 'CHERRIES' is related to '56'. To which of the following is 'ADMINISTRATION' related, following the same logic?
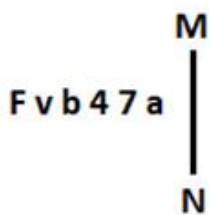
Ans
✗ 1. 112
✔ 2. 98
✗ 3. 102
✗ 4. 96

Q.7 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

FQN, CLL, ZGJ, WBH, ?

Ans
✗ 1. SVF
✗ 2. TVE
✗ 3. SVE
✔ 4. TWF

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

M

F v b 4 7 a

N

Ans
✗ 1. ɒⴕ4dvꟻ
✔ 2. ɒⴕᏜdvꟻ
✗ 3. ɒⴕ4dvꟻ
✗ 4. ɒ⋋ⴕdvꟻ

Q.9 In this question, three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusion(s) logically follows/follow from the statements.
Statements:
All chairs are sofas.
Some chairs are beds.
No sofa is a table.
Conclusions:
I. Some tables are beds.
II. No table is a chair.
III. Some sofas are beds.

Ans
✗ 1. Both conclusions I and II follow.
✗ 2. All conclusions I, II and III follow.
✔ 3. Both conclusions II and III follow.
✗ 4. Both conclusions I and III follow.

Q.10 How many rectangles are there in the following figure?

Ans
✗ 1. 8
✔ 2. 9
✗ 3. 10
✗ 4. 11

Q.11	If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '−', what will come in place of the question mark (?) in the following equation?

93 A 3 C 15 B 5 D 12 = ?

Ans
- ✗ 1. 93
- ✔ 2. 94
- ✗ 3. 91
- ✗ 4. 92

Q.12 765 is related to 876 following a certain logic. Following the same logic, 682 is related to 793.
To which of the following is 587 related, following the same logic?
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans
- ✗ 1. 543
- ✗ 2. 798
- ✗ 3. 675
- ✔ 4. 698

Q.13 What will come in the place of the question mark (?) in the following equation if '+' and '−' are interchanged and '×' and '÷' are interchanged?

$73 - 27 \times 9 + 5 \div 13 = ?$

Ans
- ✗ 1. 23
- ✗ 2. 17
- ✔ 3. 11
- ✗ 4. 9

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

Ans
- ✗ 1. Cry
- ✗ 2. Play
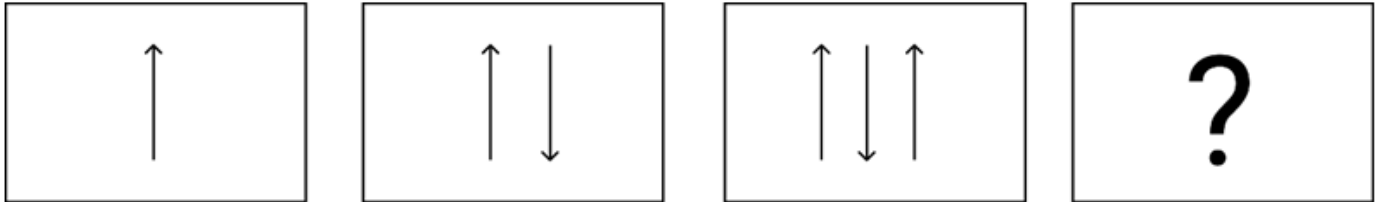- ✗ 3. Fly
- ✔ 4. Pray

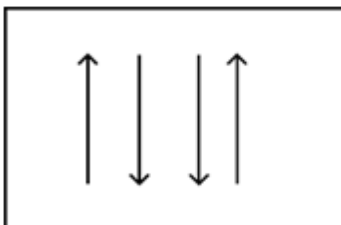**Q.15** What should come in place of ? in the given series based on the English alphabetical order?
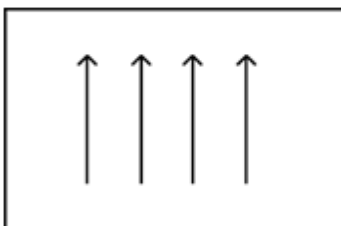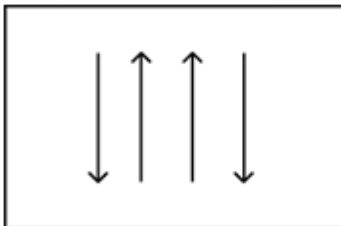
QJC ATM KDW UNG ?

Ans ✗ 1. SBA

✗ 2. BAA

✗ 3. CWO

✔ 4. EXQ

Q.16 Identify the figure given in the options which when put in place of ? will logically complete the series.

Ans

✗ 1.

✗ 2.

✔ 3.

✗ 4.

Q.17 In a certain code language, 'time and money' is coded as 'zoo zee zig' and 'time and tide' is coded as 'zee zoo zaa'. Which word is coded as 'zaa' in that language?

Ans ✗ 1. and

✗ 2. time

✗ 3. money

✔ 4. tide

Q.18 What should come in place of '?' in the given series?

34   58   106   202   394   ?

Ans
✔ 1. 778
✘ 2. 792
✘ 3. 798
✘ 4. 774

Q.19 PCNZ is related to ALWQ in a certain way based on the English alphabetical order. In the same way, RYLD is related to EHUS. To which of the following is HAXM related, following the same logic?

Ans
✔ 1. NJGI
✘ 2. NIGJ
✘ 3. NIJG
✘ 4. NJIG

Q.20 'A + B' means 'A is B's brother'.
'A – B' means 'A is B's wife'.
'A × B' means 'A is B's father'.
'A ÷ B' means 'A is B's daughter'.
Using operations with the same meaning as given above, which of the following options shows 'M is the mother of O'?

Ans
✔ 1. M – N × O
✘ 2. M ÷ N × O
✘ 3. M ÷ N + O
✘ 4. M – N + O

Q.21 What would be the word on the opposite side of 'Pear' if the given sheet is folded to form a cube?

Ans
✘ 1. Melon
✘ 2. Kiwi
✔ 3. Lime
✘ 4. Mango

Q.22 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
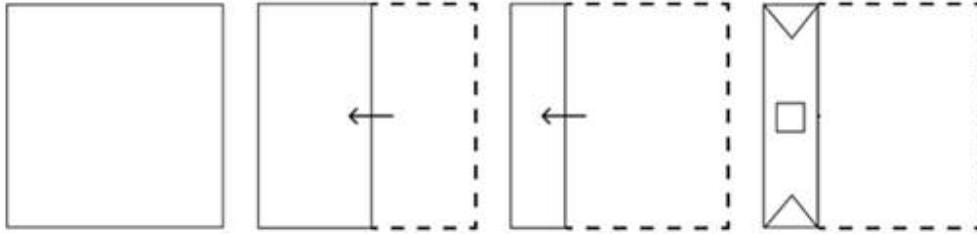(45, 15, 3)
(120, 40, 8)

Ans
✘ 1. (175, 55, 11)
✘ 2. (165, 55, 9)
✔ 3. (165, 55, 11)
✘ 4. (165, 54, 11)

Q.23 Three of the following four are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.)

Ans ✗ 1. QWD

✗ 2. EKR

✗ 3. RXE

✔ 4. TZD

Q.24 A paper is folded and cut as shown below. How will it appear when unfolded?

Ans

✗ 1.

✗ 2.

✔ 3.

✗ 4.

Q.25 If 26 September 2005 was Monday, then what was the day of the week on 26 September 2017?

Ans ✗ 1. Saturday

✗ 2. Wednesday

✗ 3. Sunday

✔ 4. Tuesday

Section : **Quantitative Aptitude**

Q.1 Simplify the given expression.

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

Ans

✗ 1. $\dfrac{73}{9}$

✗ 2. $\dfrac{73}{21}$

✗ 3. $\dfrac{73}{27}$

✔ 4. $\dfrac{73}{8}$

Q.2 The following table represents the number of computers (in thousands) manufactured by four companies during the period 2010 to 2014:

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

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

Ans

✗ 1. B

✔ 2. A

✗ 3. C

✗ 4. D

Q.3 For a given circle of radius 4 cm, the angle of its sector is 45°. Find the area (in cm^2) of the sector. (Use π = 3.14.)

Ans

✗ 1. 6.18

✗ 2. 7.28

✔ 3. 6.28

✗ 4. 7.18

Q.4 In an election between two candidates, 10% of the registered voters did not cast their vote. The winning candidate got 60% of the total votes cast and defeated the other candidate by 1242 votes. Find the total number of registered voters.

Ans

✗ 1. 9600

✗ 2. 6200

✗ 3. 8640

✔ 4. 6900

Q.5 If the average of 50 numbers $N_1, N_2, \ldots\ldots\ldots\ldots N_{50}$ is M. Then the average of the numbers $N_1{-}100, N_2{-}100, \ldots\ldots\ldots\ldots N_{50}{-}100$ will be:

Ans

✗ 1. 100M

✗ 2. M − 50

✗ 3. 50M

✔ 4. M − 100

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

Ans
✗ 1. 89 m
✔ 2. 80 m
✗ 3. 76 m
✗ 4. 69 m

Q.7 Solve the following system of linear equations:

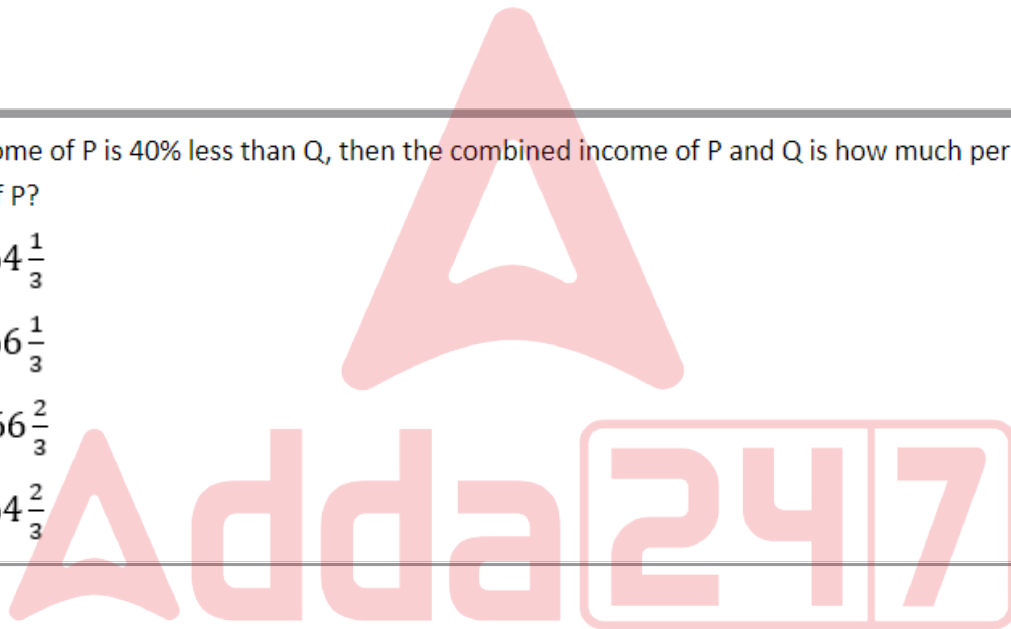$$x + y + z = 15, 2x - y + z = 12 \text{ and } x - y - z = -1$$

Ans
✔ 1. x = 7, y = 5, z = 3
✗ 2. x = 2, y = 5, z = 3
✗ 3. x = 7, y = 2, z = 3
✗ 4. x = 7, y = 5, z = 1

Q.8 A seven-digit number 489y5z6 is divisible by 72. Which of the options gives the highest possible product of y and z?

Ans
✗ 1. 21
✗ 2. 30
✔ 3. 42
✗ 4. 3

Q.9 If the income of P is 40% less than Q, then the combined income of P and Q is how much per cent more than the income of P?

Ans
✗ 1. $164\frac{1}{3}$

✗ 2. $166\frac{1}{3}$

✔ 3. $166\frac{2}{3}$

✗ 4. $164\frac{2}{3}$

Q.10 The following graph shows the sale of few items of a garment company for three months.

Monthly Sales (in mn units)

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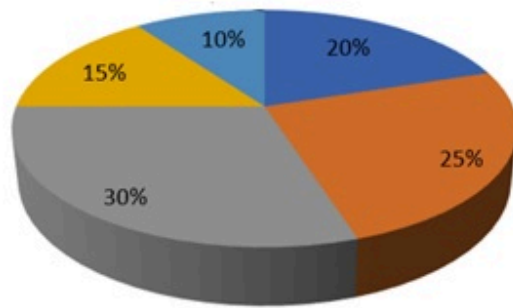
Ans

✔ 1. 16%

✘ 2. 25%

✘ 3. 20%

✘ 4. 28%

Q.11 If the height of a right circular cone is 24 cm and radius of its base is 10.5 cm, then the volume of right circular cone (in cm^3) is:

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

Ans

✔ 1. 2772

✘ 2. 2727

✘ 3. 2237

✘ 4. 2277

Q.12 The given pie-diagram shows the expenditure incurred on the preparation of a book by a publisher, under various heads. Study the pie-diagram and answer the question that follows.

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

10% 20%
15%
25%
30%

Various Expenditures (in percentage) incurred in Publishing a Book

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

Ans ✗ 1. 15°

✗ 2. 48°

✔ 3. 54°

✗ 4. 24°

Q.13 By selling 30 metres of cloth a shopkeeper makes a profit equivalent to the selling price of 10 metres of cloth. Find the selling price of 1 metre of cloth when the cost price of 1 metre of cloth is ₹480.

Ans ✗ 1. ₹520

✔ 2. ₹720

✗ 3. ₹960

✗ 4. ₹820

Q.14 If 6,18, x are sides of a triangle and x is an integer, then the number of possible values of x is:

Ans ✔ 1. 11

✗ 2. 15

✗ 3. 13

✗ 4. 14

Q.15 An amount of ₹50,000 becomes ₹72,000 in 4 years on a simple rate of interest. The rate of interest is _____ per annum.

Ans ✗ 1. 9%

✗ 2. 10%

✔ 3. 11%

✗ 4. 12%

Q.16 A dealer buys an article listed at ₹100 and get successive discounts of 10% and 20%. He spends 10% of the cost price on transportation. At what price should he sell the article to earn a profit of 15%?

Ans ✗ 1. ₹76.07

✗ 2. ₹81.07

✗ 3. ₹89.08

✔ 4. ₹91.08

Q.17 A and B can complete a piece of work in 12 days. B and C can complete the same work in 15 days and C and A in 10 days. How many days will A take to complete the work by himself?
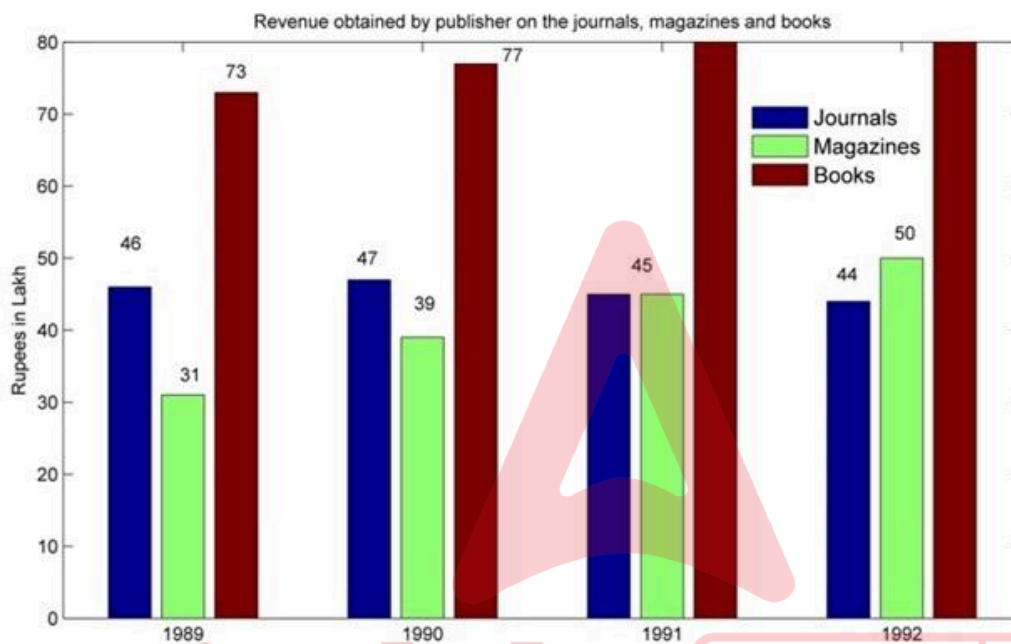
Ans

✗ 1. $16\dfrac{1}{7}$

✔ 2. $17\dfrac{1}{7}$

✗ 3. $13\dfrac{3}{7}$

✗ 4. $9\dfrac{1}{8}$

Q.18 Answer the following question on the basis of the bar graph given.

Revenue obtained by publisher on the journals, magazines and books

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

Ans

✗ 1. 24.73%

✗ 2. 25.8%

✗ 3. 22.9%

✔ 4. 26.5%

Q.19 If the perimeter of a square is 64 cm, what would be its area?

Ans

✔ 1. 256 cm^2

✗ 2. 206 cm^2

✗ 3. 216 cm^2

✗ 4. 266 cm^2

Q.20 Which is the greatest ratio among the following?

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

Ans

✅ 1. $\frac{4}{5}$

❌ 2. $\frac{1}{2}$

❌ 3. $\frac{1}{11}$

❌ 4. $\frac{8}{11}$

Q.21 12.75% is equivalent to _____.

Ans

❌ 1. $\frac{37}{400}$

✅ 2. $\frac{51}{400}$

❌ 3. $\frac{41}{400}$

❌ 4. $\frac{17}{200}$

Q.22 AB and AC are two tangents to a circle having centres at the point X. What will be the measure of ∠BAC, if ∠BXC = 125°?

Ans ❌ 1. 50°

❌ 2. 48°

✅ 3. 55°

❌ 4. 52°

Q.23 PQ is parallel to SR in a trapezium PQRS. It is given that PQ > SR and the diagonals PR and QS intersect at O. If PO = 3x − 15, OQ = x + 9, OR = x − 5 and OS = 5 and x has two values x_1 and x_2, then the value of $(x_1^2 - x_2^2)$ is:

Ans ❌ 1. 15

✅ 2. 11

❌ 3. 19

❌ 4. 13

Q.24 If the radius of a sphere is increased by 12 percent, then the volume will be increased by approximately:

Ans ❌ 1. 42.5 percent

❌ 2. 45.49 percent

✅ 3. 40.49 percent

❌ 4. 41.49 percent

Q.25 $\dfrac{3\cos^3\theta - 2\cos\theta}{\sin\theta - 3\sin^3\theta}$ is equal to:

Ans ✗ 1. $\tan\theta$

✗ 2. $\cot^2\theta$

✔ 3. $\cot\theta$

✗ 4. $\tan^2\theta$

Section : General Awareness

Q.1 The Maritime Anti-Piracy Act, 2022, received the assent of the President on _____.

Ans ✗ 1. 31 March 2023

✗ 2. 30 April 2023

✗ 3. 31 December 2022

✔ 4. 31 January 2023

Q.2 Where was India's first hockey club founded?

Ans ✗ 1. Madras

✗ 2. Delhi

✔ 3. Calcutta

✗ 4. Shimla

Q.3 For which discovery did Henri Becquerel receive the Nobel Prize in Physics in 1903?

Ans ✔ 1. Spontaneous Radioactivity

✗ 2. Radioactive Elements

✗ 3. Radium Emanation

✗ 4. Diagnostic Radiography

Q.4 As per the Census-2011, the population growth during the decade remained _____.

Ans ✗ 1. 15.30%

✗ 2. 14.25%

✔ 3. 17.64%

✗ 4. 18.30%

Q.5 Which of the following is the default alignment of text in a Microsoft Word document?

Ans ✗ 1. Center

✔ 2. Left

✗ 3. Justified

✗ 4. Right

Q.6 The term 'banana kick' is associated with which sport?

Ans ✗ 1. Ice Hockey

✗ 2. Boxing

✗ 3. Hockey

✔ 4. Football

Q.7 Ursa Major is a/an:

Ans ✗ 1. comet

✗ 2. asteroid

✔ 3. constellation

✗ 4. stellite

Q.8 The Deccan Plateau is a _____ landmass that lies to the south of the river Narmada.

Ans
- ✗ 1. quadrilateral
- ✗ 2. rectangular
- ✗ 3. hexagonal
- ✓ 4. triangular

Q.9 In which state is the Raika tribe found?

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

Q.10 Where did the indigenous sport 'Kalaripayattu' originate from?

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

Q.11 _____ is a form of Sikh festival.

Ans
- ✗ 1. Khamaj
- ✓ 2. Hola Mohalla
- ✗ 3. Bhairav
- ✗ 4. Kalyan

Q.12 Which of the following statements about the Pala Dynasty of eastern India is INCORRECT?

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

Q.13 In January 2022, which evacuation mission did the government of India launch to evacuate the Indians stranded in Ukraine?

Ans
- ✓ 1. Operation Ganga
- ✗ 2. Operation Safe Homecoming
- ✗ 3. Operation Vande Bharat
- ✗ 4. Operation Raahat

Q.14 Who developed the technique of preserving the quality of food by raising its temperature to prevent microbial growth in the food?

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

Q.15 Which Section of the Representation of People's Act (RPA), 1951 deprives the prisoners of their right to vote?

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

Q.16 The government of which state started the Tansen Samman?

Ans
  ✗ 1. Himachal Pradesh

  ✗ 2. Uttar Pradesh

  ✔ 3. Madhya Pradesh

  ✗ 4. Arunachal Pradesh

Q.17 Which city is referred to as the 'Manchester of India'?

Ans
  ✔ 1. Ahmedabad

  ✗ 2. Kanpur

  ✗ 3. Kolkata

  ✗ 4. Mumbai

Q.18 Which Article of the Constitution mentions about establishing and maintaining institutions for religious and charitable purposes?

Ans
  ✗ 1. Article 28

  ✔ 2. Article 26

  ✗ 3. Article 29

  ✗ 4. Article 30

Q.19 Good Friday is related to:

Ans
  ✔ 1. Christianity

  ✗ 2. Hinduism

  ✗ 3. Sikhism

  ✗ 4. Jainism

Q.20 The proclamation of which Act by the King of England in 1773 paved the way for the establishment of the Supreme Court at Calcutta?

Ans
  ✗ 1. Pitt's India Act

  ✗ 2. Indian Councils Act

  ✗ 3. Charter Act

  ✔ 4. Regulating Act

Q.21 Which of the following folk music of Chhattisgarh is based on the epic Mahabharata?

Ans
  ✗ 1. Paani Haari

  ✗ 2. Ghumar

  ✔ 3. Pandavani

  ✗ 4. Maand

Q.22 Which of the following is issued by commercial banks at a discount on face value?

Ans
  ✗ 1. Commercial papers

  ✔ 2. Certificates of deposits

  ✗ 3. Treasury bills

  ✗ 4. Promissory notes

Q.23 In a situation wherein A (female) and B (male) are working in same office, same designation, same nature of work but unequal payment, which of the following Articles of the Constitution will be applicable?

Ans ✗ 1. Article 21

✓ 2. Article 39(d)

✗ 3. Article 18

✗ 4. Article 48A

Q.24 Which of the following is an example of application software?

Ans ✗ 1. A web browser

✗ 2. A programming language

✗ 3. An operating system

✓ 4. A word processor

Q.25 The Green Revolution led to an increase in the agricultural output primarily due to the use of HYV seeds. Here, HYV refers to:

Ans ✗ 1. High Yielding Variance

✗ 2. Heat Yielding Variant

✓ 3. High Yielding Variety

✗ 4. High Yield Variant