Combined Higher Secondary Level Examination 2023 Tier I

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Venue Name	iON Digital Zone iDZ Sandalpur
Exam Date	03/08/2023
Exam Time	5:15 PM - 6:15 PM
Subject	CHSL Exam 2023 Tier I

Section : **English Language**

Q.1 **Choose the correct meaning of the underlined word in the given sentence.**
The orchard was a peaceful retreat, with the sound of leaves rustling in the wind and birds chirping in the trees.

Ans ✗ 1. A piece of land with lots of houses

✗ 2. A collection of farmlands

✗ 3. A collection of apartments

✓ 4. A piece of enclosed land with fruit trees

Question ID : **264330149744**
Status : **Answered**
Chosen Option : **4**

Q.2 **Select the most appropriate meaning of the given idiom.**

Make up one's mind

Ans ✗ 1. To disturb

✗ 2. To leave

✓ 3. To decide

✗ 4. To cheat

Question ID : **264330142634**
Status : **Answered**
Chosen Option : **3**

Q.3 **Select the grammatically correct version of the following sentence.**

I like my puppies, Mac and Matt, but I like Matt best.

Ans ✓ 1. I like my puppies, Mac and Matt, but I like Matt better.

✗ 2. I like my puppies, Mac and Matt, but I like Matt the best.

✗ 3. I like my puppies, Mac and Matt, but I like Matt much.

✗ 4. I like my puppies, Mac and Matt, but I like Matt most.

Question ID : **264330144329**
Status : **Answered**
Chosen Option : **3**

Q.4 Select the most appropriate meaning of the underlined phrase in the following sentence.
As the actors gathered backstage, the director shouted, "<u>Break a leg</u>, everyone!" before they took the stage for their opening night performance.

Ans ✗ 1. To get a good night's sleep

✓ 2. To wish someone good luck

✗ 3. To take a risk

✗ 4. To keep a secret

Question ID : **264330143947**
Status : **Answered**
Chosen Option : **2**

Q.5 Select the most appropriate ANTONYM to replace the underlined word in the following sentence.
He was a <u>liberal</u> who believed that men were inherently superior to women in every aspect of life.

Ans ✓ 1. conservative

✗ 2. tolerant

✗ 3. republican

✗ 4. philanthropist

Question ID : **264330143957**
Status : **Answered**
Chosen Option : **1**

Q.6 Select the most appropriate option that can substitute the underlined segment in the following sentence. If there is no need to substitute it, select 'No substitution required'.

I enjoy <u>learn</u> languages because I like them.

Ans ✗ 1. to learning

✗ 2. lean

✓ 3. learning

✗ 4. No substitution required

Question ID : **264330150831**
Status : **Answered**
Chosen Option : **3**

Q.7 Select the option that can be used as a one-word substitute for the given group of words.
Argue loudly about unimportant things

Ans ✗ 1. Maintain

✗ 2. Disagree

✗ 3. Agree

✓ 4. Squabble

Question ID : **264330149862**
Status : **Answered**
Chosen Option : **4**

Q.8 Select the most appropriate ANTONYM of the given word.
Hostile

Ans ✔ 1. Hospitable

✘ 2. Bitter

✘ 3. Nasty

✘ 4. Aggressive

Question ID : **264330143220**

Status : **Answered**

Chosen Option : **1**

Q.9 Select the option that expresses the given sentence in passive voice.
Do the Basus visit the Shuklas?

Ans ✘ 1. Are the Shuklas been visited by the Basus?

✘ 2. Are the Shuklas visit by the Basus?

✘ 3. Are the Shuklas being visited by the Basus?

✔ 4. Are the Shuklas visited by the Basus?

Question ID : **264330147608**

Status : **Answered**

Chosen Option : **4**

Q.10 Select the correctly spelt word.

Ans ✘ 1. Ocasion

✔ 2. Occasion

✘ 3. Occasien

✘ 4. Occassion

Question ID : **264330143948**

Status : **Answered**

Chosen Option : **2**

Q.11 Select the most appropriate synonym of the underlined word.
He was the discreet boy in our group but more hardworking than all of us.

Ans ✘ 1. loud

✘ 2. outspoken

✔ 3. reserved

✘ 4. noisy

Question ID : **264330149870**

Status : **Answered**

Chosen Option : **3**

Q.12 Select the most appropriate synonym of the bracketed word in the following sentence to fill in the blank.

The factory has been _____(exhaling) black smoke from its chimney.

Ans ✔ 1. emitting

✘ 2. preserving

✘ 3. remitting

✘ 4. indicting

Question ID : **264330142657**
Status : **Answered**
Chosen Option : **1**

Q.13 Select the option that can be used as a one-word substitute for the given group of words.

A life history of a person written by himself

Ans ✘ 1. Biography

✘ 2. Epic

✘ 3. Story

✔ 4. Autobiography

Question ID : **264330143167**
Status : **Answered**
Chosen Option : **4**

Q.14 Parts of a sentence are given below in jumbled order. Select the option that arranges the parts in the correct order to form a meaningful sentence.

A) about all his
B) noise they make
C) he constantly complains
D) neighbours and the

Ans ✘ 1. B, A, D, C

✔ 2. C, A, D, B

✘ 3. B, D, A, C

✘ 4. D, B, C, A

Question ID : **264330143918**
Status : **Answered**
Chosen Option : **2**

Q.15 Select the option that expresses the given sentence in active voice.
I was kept waiting for more than an hour to get an appointment by the staff.

Ans ✘ 1. The staff had kept me waiting for more than an hour to get an appointment.

✘ 2. The staff keep me waiting for more than an hour to get an appointment.

✔ 3. The staff kept me waiting for more than an hour to get an appointment.

✘ 4. The staff kept me wait for more than an hour to get an appointment.

Question ID : **264330143041**
Status : **Answered**
Chosen Option : **3**

Q.16 Sentences of a paragraph are given below in jumbled order. Select the option that arranges the sentences in the correct logical sequence to form a meaningful and coherent paragraph.
A. Globally, almost 6.5 million people have died so far.
B. As I write the final chapter, we enter the third year in our battle with COVID-19.
C. While we have the vaccine to outlive the disease, to live our grief needs the salve of time.
D. I started writing this book in the throes of the pandemic.

Ans ✗ 1. B, A, D, C

✓ 2. D, B, A, C

✗ 3. A, D, B, C

✗ 4. C, D, B, A

Question ID : 264330144341
Status : **Answered**
Chosen Option : **2**

Q.17 Select the INCORRECTLY spelt word.

Ans ✗ 1. Grateful

✗ 2. Immigrate

✗ 3. Ignorance

✓ 4. Hieararchy

Question ID : 264330142640
Status : **Answered**
Chosen Option : **1**

Q.18 Select the most appropriate ANTONYM of the underlined word.

His deliberate activities brought him <u>fame</u>.

Ans ✓ 1. Dishonour

✗ 2. Respect

✗ 3. Sorrow

✗ 4. Strength

Question ID : 264330143181
Status : **Answered**
Chosen Option : **1**

Q.19 Select the most appropriate ANTONYM of the given word.
Imminent

Ans ✗ 1. Near

✗ 2. Unstoppable

✓ 3. Distant

✗ 4. Impending

Question ID : 264330143152
Status : **Answered**
Chosen Option : **3**

Q.20 **The following sentence has been divided into four segments. Identify the segment that contains a grammatical error.**

Have you ever / wondered / where does / oysters come from?

Ans ✗ 1. wondered

✗ 2. oysters come from?

✓ 3. where does

✗ 4. Have you ever

Question ID : **264330144325**

Status : **Answered**

Chosen Option : **3**

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 Grim Reaper seems to have (1)_____ in Europe during the 14th century. It was during this time that Europe was dealing with what was then the world's (2)_____ pandemic, the Black Death, believed to be the result of the plague. It is estimated that about one-third of Europe's entire population (3)_____ as a result of the pandemic, with some areas of the continent suffering far greater losses than others. The original outbreak of the plague occurred during 1347–51, and outbreaks then (4)_____ several other times after that. So, clearly, death was something that the surviving Europeans had on their mind, and it is not surprising that they (5)_____ an image to represent it.

SubQuestion No : 21

Q.21 **Select the most appropriate option to fill in blank number 1.**

Ans ✗ 1. found

✓ 2. appeared

✗ 3. rested

✗ 4. died

Question ID : **264330149558**

Status : **Answered**

Chosen Option : **2**

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 Grim Reaper seems to have (1)_____ in Europe during the 14th century. It was during this time that Europe was dealing with what was then the world's (2)_____ pandemic, the Black Death, believed to be the result of the plague. It is estimated that about one-third of Europe's entire population (3)_____ as a result of the pandemic, with some areas of the continent suffering far greater losses than others. The original outbreak of the plague occurred during 1347–51, and outbreaks then (4)_____ several other times after that. So, clearly, death was something that the surviving Europeans had on their mind, and it is not surprising that they (5)_____ an image to represent it.

SubQuestion No : 22

Q.22 Select the most appropriate option to fill in blank number 2.

Ans ✗ 1. better

✗ 2. worse

✗ 3. best

✓ 4. worst

Question ID : **264330149559**
Status : **Answered**
Chosen Option : **4**

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 Grim Reaper seems to have (1)_____ in Europe during the 14th century. It was during this time that Europe was dealing with what was then the world's (2)_____ pandemic, the Black Death, believed to be the result of the plague. It is estimated that about one-third of Europe's entire population (3)_____ as a result of the pandemic, with some areas of the continent suffering far greater losses than others. The original outbreak of the plague occurred during 1347–51, and outbreaks then (4)_____ several other times after that. So, clearly, death was something that the surviving Europeans had on their mind, and it is not surprising that they (5)_____ an image to represent it.

SubQuestion No : 23

Q.23 Select the most appropriate option to fill in blank number 3.

Ans ✗ 1. vanished

✗ 2. shriveled

✓ 3. perished

✗ 4. moldered

Question ID : **264330149560**
Status : **Answered**
Chosen Option : **3**

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 Grim Reaper seems to have (1)_____ in Europe during the 14th century. It was during this time that Europe was dealing with what was then the world's (2)_____ pandemic, the Black Death, believed to be the result of the plague. It is estimated that about one-third of Europe's entire population (3)_____ as a result of the pandemic, with some areas of the continent suffering far greater losses than others. The original outbreak of the plague occurred during 1347–51, and outbreaks then (4)_____ several other times after that. So, clearly, death was something that the surviving Europeans had on their mind, and it is not surprising that they (5)_____ an image to represent it.

SubQuestion No : 24

Q.24 Select the most appropriate option to fill in blank number 4.

Ans ✗ 1. remaked

✗ 2. renewed

✓ 3. recurred

✗ 4. duplicated

Question ID : **264330149561**
Status : **Answered**
Chosen Option : **3**

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 Grim Reaper seems to have (1)_____ in Europe during the 14th century. It was during this time that Europe was dealing with what was then the world's (2)_____ pandemic, the Black Death, believed to be the result of the plague. It is estimated that about one-third of Europe's entire population (3)_____ as a result of the pandemic, with some areas of the continent suffering far greater losses than others. The original outbreak of the plague occurred during 1347–51, and outbreaks then (4)_____ several other times after that. So, clearly, death was something that the surviving Europeans had on their mind, and it is not surprising that they (5)_____ an image to represent it.

SubQuestion No : 25

Q.25 Select the most appropriate option to fill in blank number 5.

Ans ✗ 1. forced

✓ 2. conjured

✗ 3. desired

✗ 4. compelled

Question ID : **264330149562**
Status : **Answered**
Chosen Option : **2**

Section : **General Intelligence**

Q.1 In a certain code language,
P # Q means P is the wife of Q,
P – Q means P is the mother of Q,
P + Q means P is the father of Q,
P & Q means P is the son of Q.
Based on the above, how is E related to L in C # D + E # G + L?

Ans
✔ 1. Mother
✘ 2. Father
✘ 3. Sister
✘ 4. Mother's mother

Question ID : 264330152100
Status : **Answered**
Chosen Option : **1**

Q.2 If the 20th day of the month falls on the 4th day before Monday, then what will be the day of the week on the 1st of that month?

Ans
✔ 1. Saturday
✘ 2. Tuesday
✘ 3. Wednesday
✘ 4. Friday

Question ID : 264330147454
Status : **Answered**
Chosen Option : **1**

Q.3 Three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?

Ans
✘ 1. XVU
✔ 2. TQP
✘ 3. CAZ
✘ 4. KIH

Question ID : 264330147092
Status : **Answered**
Chosen Option : **2**

Q.4 Select the number from among the given options that can replace the question mark (?) in the following series.

6, 24, 54, 96, 150, ?

Ans
✔ 1. 216
✘ 2. 196
✘ 3. 220
✘ 4. 204

Question ID : 264330147476
Status : **Answered**
Chosen Option : **1**

Q.5 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: 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. $7 - 56$
✗ 2. $9 - 90$
✗ 3. $4 - 20$
✔ 4. $6 - 48$

Question ID : **264330152059**
Status : **Answered**
Chosen Option : **4**

Q.6 Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion/s logically and definitely follow/s from the given statements.

Statements: Some Chips are Potatoes. All Potatoes are Fries. All Fries are Snacks.

Conclusions: (I) All Potatoes are Snacks.

(II) Some Snacks are Chips.

Ans
✗ 1. Both conclusions (I) and (II) do not follow.
✗ 2. Only conclusion (I) follows.
✔ 3. Both conclusions (I) and (II) follow.
✗ 4. Only conclusion (II) follows.

Question ID : **264330151162**
Status : **Answered**
Chosen Option : **3**

Q.7 Which number from among the given options can replace the question mark (?) in the following series?

31, 97, ?, 259, 355, 461

Ans
✗ 1. 127
✗ 2. 234
✗ 3. 189
✔ 4. 173

Question ID : **264330146995**
Status : **Answered**
Chosen Option : **4**

Q.8 'LJNR' is related to 'QNQT' in a certain way based on the English alphabetical order. In the same way, 'JHLP' is related to 'OLOR'. To which of the following is 'FDHL' related, following the same logic?

Ans ✗ 1. KNKH

✓ 2. KHKN

✗ 3. KNHK

✗ 4. KKNH

Question ID : **264330150690**
Status : **Answered**
Chosen Option : **2**

Q.9 In a certain code language, 'PRINT' is coded as '38724' and 'NITRO' is coded as '23687'. What is the code for 'O' in the given code language?

Ans ✗ 1. 3

✗ 2. 4

✓ 3. 6

✗ 4. 8

Question ID : **264330147199**
Status : **Answered**
Chosen Option : **3**

Q.10 A square sheet of paper is folded along the dotted line successively along the directions shown and is then punched in the end. How would the paper look when unfolded?

Ans

✔ 1.

✘ 2.

✘ 3.
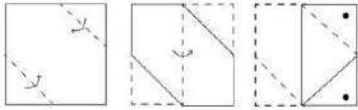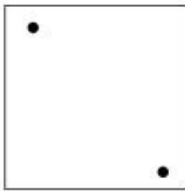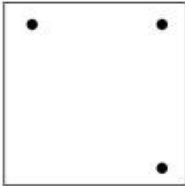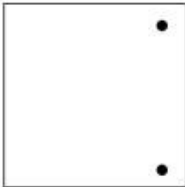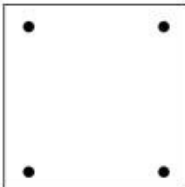
✘ 4.

Q.11 How many triangles are there in the given figure?
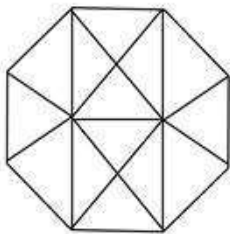
Ans ✘ 1. 20

✘ 2. 21

✘ 3. 22

✔ 4. 24

Q.12 In a certain code language,

A + B means 'A is the mother of B',
A − B means 'A is the father of B',
A × B means 'A is the husband of B' and
A ÷ B means 'A is the sister of B'.

Based on the above, how is Q related to L if 'Q × C + R ÷ G − L'?

Ans ✗ 1. Mother's father

✔ 2. Father's father

✗ 3. Father's son

✗ 4. Father's brother

Question ID : **264330150990**
Status : **Answered**
Chosen Option : **2**

Q.13 In a certain code language, 'BRING' is coded as 'FVMRK' and 'LOVE' is coded as 'PSZI'. What is the code for 'SOLDIER' in the given code language?

Ans ✔ 1. WSPHMIV

✗ 2. WTPHMIV

✗ 3. WSPHMIU

✗ 4. WSPHNIV

Question ID : **264330147405**
Status : **Answered**
Chosen Option : **1**

Q.14 What should come in place of ? in the given series based on the English alphabetical order?

DRH   YOG   TLF   OIE   ?

Ans ✔ 1. JFD

✗ 2. KFE

✗ 3. IDE

✗ 4. KDD

Question ID : **264330146614**
Status : **Answered**
Chosen Option : **1**

Q.15 Which two mathematical operators should be interchanged to balance the following equation?

$19 - 39 \times 3 + 25 \div 5 = 131$

Ans
✗ 1. + and ÷

✔ 2. ÷ and ×

✗ 3. − and ÷

✗ 4. + and ×

Question ID : **264330147038**

Status : **Answered**

Chosen Option : **2**

Q.16 Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the one that is different.

(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.)

16 : 90

32 : 201

21 : 120

41 : 240

Ans
✗ 1. 16 : 90

✗ 2. 41 : 240

✗ 3. 21 : 120

✔ 4. 32 : 201

Question ID : **264330147031**

Status : **Answered**

Chosen Option : **4**

Q.17 JKGI is related to OPLN in a certain way based on the English alphabetical order. In the same way, QRNP is related to VWSU. Which of the following is NOKM related to, following the same logic?

Ans
✗ 1. STOP

✔ 2. STPR

✗ 3. STQR

✗ 4. TUPQ

Question ID : **264330150981**

Status : **Answered**

Chosen Option : **2**

Q.18 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. 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.)

(125, 30)

(615, 128)

Ans   ✗ 1. 165, 28

   ✗ 2. 425, 92

   ✗ 3. 335, 73

   ✔ 4. 225, 50

Question ID : 264330147009
Status : **Answered**
Chosen Option : **4**

Q.19 Select the set in which the numbers are related in the same way as are the numbers of the given 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/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.)

9 : 32 : 7

11 : 96 : 5

Ans   ✗ 1. 8 : 38 : 5

   ✔ 2. 6 : 27 : 3

   ✗ 3. 7 : 30 : 4

   ✗ 4. 12 : 110 : 6

Question ID : 264330151016
Status : **Answered**
Chosen Option : **2**

Q.20 Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?

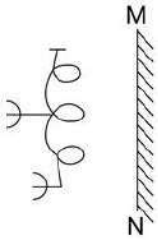JHF, MKI, PNL, ?, VTR

Ans   ✗ 1. SRP

   ✗ 2. PSO

   ✗ 3. PST

   ✔ 4. SQO

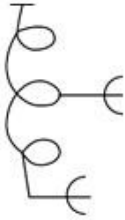Question ID : 264330146735
Status : **Answered**
Chosen Option : **4**

Q.21 Select the correct mirror image of the given figure when the mirror is placed at MN as shown.
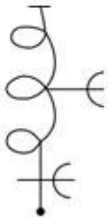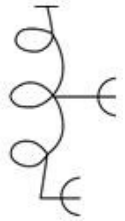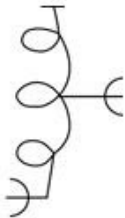

Ans

✗ 1.

✗ 2.

✔ 3.

✗ 4.

Q.22 WF 18 is related to ZI 13 in a certain way. In the same way, NT 16 is related to QW 11. To which of the following is SL 19 related following the same logic?

Ans

✔ 1. VO 14

✗ 2. UO14

✗ 3. WP 13

✗ 4. VP15

Q.23 John bought a puppy on Friday, 21 January 2022. The puppy become an adult dog on the 380th day since John bought him. On which day did the puppy become an adult?

Ans ✗ 1. Saturday

✗ 2. Wednesday

✗ 3. Monday

✓ 4. Sunday

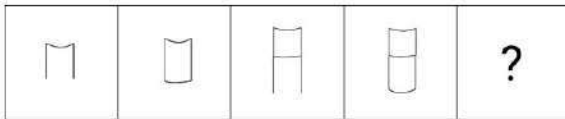Question ID : 264330146999
Status : **Answered**
Chosen Option : **1**

Q.24 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?

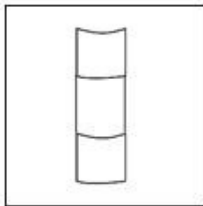31 B 5 D 12 C 56 A 14 = ?

Ans ✗ 1. 137

✗ 2. 127

✓ 3. 147

✗ 4. 117

Question ID : 264330147390
Status : **Answered**
Chosen Option : **3**

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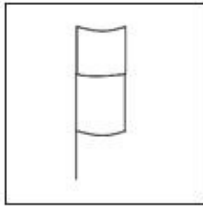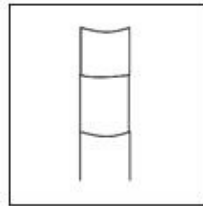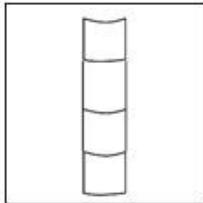

Ans

✗ 1.

✗ 2.

✔ 3.

✗ 4.

Question ID : 264330147244
Status : **Answered**
Chosen Option : **3**

Section : **Quantitative Aptitude**

Q.1 Minor arc BC subtends angles BAC and BDC at points A and D, respectively, on the circumference in the major sector of the circle with centre O. What is the value (in degrees) of (∠ABC + ∠ ACB), if ∠BDC = 73°?

Ans ✗ 1. 117°

✔ 2. 107°

✗ 3. 103°

✗ 4. 113°

Question ID : 264330147797
Status : **Answered**
Chosen Option : **2**

Q.2 What is the least value of x+y, if 10 digit number 780x533y24 is divisible by 88?

Ans ✗ 1. 4

✗ 2. 3

✗ 3. 1

✔ 4. 2

Q.3 The compound ratio of 3 : 4 and 6 : 7 is 36 : x. Find x.

Ans ✗ 1. 64

✗ 2. 75

✔ 3. 56

✗ 4. 48

Q.4 In $\triangle ABC$, the internal bisectors of $\angle ABC$ and $\angle ACB$ meet at X and $\angle BAC = 30°$. The measure of $\angle BXC$ is:

Ans ✗ 1. 120°

✗ 2. 115°

✔ 3. 105°

✗ 4. 150°

Q.5 The difference between the total surface area and the lateral surface area of a cube of side 12 cm is:

Ans ✗ 1. 292 cm^2

✗ 2. 290 cm^2

✔ 3. 288 cm^2

✗ 4. 286 cm^2

Q.6 A bag is listed at ₹1,500 and a discount of 20% is offered. If the customer wanted to get the bag at a net price of ₹1,104, what additional discount must be offered to the customer?

Ans ✔ 1. 8%

✘ 2. 4%

✘ 3. 5%

✘ 4. 10%

Question ID : **264330148421**
Status : **Answered**
Chosen Option : **1**

Q.7 Disha takes 12 hours to copy a 75-page manuscript, while Mohit can copy the same manuscript in 10 hours. How many hours will it take for them to copy a 150-page manuscript if they work together?

Ans ✔ 1. $10\frac{10}{11}$ hours

✘ 2. $9\frac{9}{11}$ hours

✘ 3. $8\frac{9}{11}$ hours

✘ 4. $11\frac{8}{11}$ hours

Question ID : **264330149425**
Status : **Answered**
Chosen Option : **1**

Q.8 Shobha purchased a saree for ₹5,130 after availing two successive discounts of 10% and 5%. What is the marked price of the saree?

Ans ✔ 1. ₹6,000

✘ 2. ₹5,400

✘ 3. ₹5,000

✘ 4. ₹5,200

Question ID : **264330147704**
Status : **Answered**
Chosen Option : **1**

Q.9 A financial institution claims that it returns three times the principal in 25 years on a certain rate of simple interest per annum. What is the rate of simple interest?

Ans ✔ 1. 8%

✘ 2. 6%

✘ 3. 4%

✘ 4. 5%

Question ID : **264330150539**
Status : **Answered**
Chosen Option : **1**

Q.10 The distance between the centres of two circles having radii of 24 cm and 18 cm, respectively, is 48 cm. Find the length (in cm) of a direct common tangent to the two circles.

Ans ✗ 1. $20\sqrt{6}$

✓ 2. $18\sqrt{7}$

✗ 3. 45

✗ 4. $22\sqrt{5}$

Q.11 The radius of a circle is 3 cm and 'O' is its centre. The length of the tangent (in cm) to the circle drawn from a point P, which is at a distance of 5 cm from 'O' is:

Ans ✓ 1. 4

✗ 2. 6

✗ 3. 5

✗ 4. 3

Q.12 The given table shows the number of berths reserved in trains A, B and C on a particular day under different classes. Study the given table and answer the question that follows.

Trains	AC-1st class capacity-200	AC-sleeper capacity-200	AC-chair car capacity-400	First class capacity-300	2nd class capacity-500
A	186	201	313	282	487
B	190	183	348	215	414
C	198	191	364	291	484

How many berths in all the classes together are vacant in Trains B and C?

Ans ✗ 1. 534

✗ 2. 612

✓ 3. 322

✗ 4. 278

Q.13 If $(a+b+c) \neq 0$, then $(a+b+c)(a^2+b^2+c^2-ab-bc-ca)$ is equal to:

Ans ✗ 1. $a^3+b^3-c^3-3abc$

✗ 2. $a^3-b^3+c^3-3abc$

✓ 3. $a^3+b^3+c^3-3abc$

✗ 4. $a^3+b^3+c^3+3abc$

Q.14 A boat goes 10 km upstream in 50 minutes, and the speed of the stream is 3 kmph. Find the speed of the boat in still water (in kmph).

Ans
✔ 1. 15
✘ 2. 10
✘ 3. 8
✘ 4. 12

Question ID : 264330147760
Status : **Answered**
Chosen Option : **1**

Q.15 A vendor earns 10% on an investment but loses 10% on another investment. What will be the combined loss or gain if the two investments are in the ratio 1 : 3?

Ans
✘ 1. 4% loss
✘ 2. 5%gain
✘ 3. 4% gain
✔ 4. 5% loss

Question ID : 264330148417
Status : **Answered**
Chosen Option : **4**

Q.16

If $\sin (p + q) = 1$ and $\cos (p - q) = \dfrac{\sqrt{3}}{2}$, find p.

Ans
✘ 1. 90°
✘ 2. 80°
✔ 3. 60°
✘ 4. 120°

Question ID : 264330148769
Status : **Answered**
Chosen Option : **3**

Q.17 The ratio of the number of men to the number of women in an office is 2 : 3. If the average weights of the men and the women in the office are 56 kg and 51 kg, respectively, find the average weight of the employees in the office (in kg).
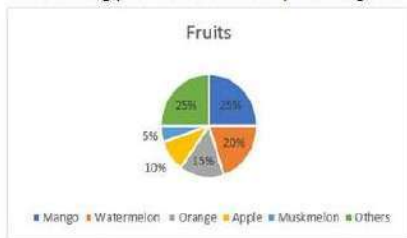
Ans
✘ 1. 53.5
✘ 2. 54
✔ 3. 53
✘ 4. 54.5

Question ID : 264330150930
Status : **Answered**
Chosen Option : **3**

Q.18 The following pie-chart shows the percentage distribution of different fruits in a market.

Fruits

25% 25%
5%
20%
10% 15%

■ Mango ■ Watermelon ■ Orange ■ Apple ■ Muskmelon ■ Others

There are 15,000 kg of oranges in the market. Find the quantity of muskmelon and watermelon together.

Ans
✔ 1. 25,000 kg

✘ 2. 5,000 kg

✘ 3. 20,000 kg

✘ 4. 10,000 kg

Question ID : 264330147637
Status : **Answered**
Chosen Option : **1**

Q.19 The following table represents the number of candidates who appeared (A) and passed (P) in a screening test over four years from four different states. Read the table carefully and answer the question given below:

States/ Years	Assam		Bihar		Kerala		Uttar Pradesh	
	A	P	A	P	A	P	A	P
2019	2500	1400	4200	3200	2800	2200	4500	3600
2020	2700	1500	4500	3400	3000	2400	4600	3700
2021	2900	1800	4700	3800	3400	2500	4800	3800
2022	3000	1900	5000	3900	3500	2600	5200	4100

What is the average number of appearing candidates in the screening test from all the four states in the year 2021?

Ans
✘ 1. 4000

✘ 2. 3900

✘ 3. 3850

✔ 4. 3950

Question ID : 264330150548
Status : **Answered**
Chosen Option : **4**

Q.20 A person, who spends 68% of his monthly income, is able to save ₹14,720 per month. Find his total expenses.

Ans
✘ 1. ₹46,000

✘ 2. ₹38,210

✔ 3. ₹31,280

✘ 4. ₹42,400

Question ID : 264330147660
Status : **Answered**
Chosen Option : **3**

Q.21

If $\text{cosec}\theta = 1\frac{7}{22}$, find the value of $\cot^2\theta$.

Ans

✗ 1. $\dfrac{49}{484}$

✓ 2. $\dfrac{357}{484}$

✗ 3. $\dfrac{225}{484}$

✗ 4. $\dfrac{7}{22}$

Question ID : **264330146837**
Status : **Answered**
Chosen Option : **2**

Q.22 If $x^3 = 270 + y^3$ and $x = (6 + y)$, then what is the value of $(x + y)$? (given that $x > 0$ and $y > 0$)

Ans

✗ 1. $2\sqrt{3}$

✗ 2. $\sqrt{3}$

✓ 3. $4\sqrt{3}$

✗ 4. $4\sqrt{2}$

Question ID : **264330148075**
Status : **Answered**
Chosen Option : **3**

Q.23 If 2a + 3b = 14 and 2a – 3 b = 10, then find the value of 'ab'.

Ans

✗ 1. 5

✗ 2. 3

✓ 3. 4

✗ 4. 2

Question ID : **264330148221**
Status : **Answered**
Chosen Option : **3**

Q.24 What is the present value of the sum if the interest compounded at the rate of 18% per annum for two years is ₹981?

Ans

✗ 1. ₹2,800

✓ 2. ₹2,500

✗ 3. ₹3,600

✗ 4. ₹2,400

Question ID : **264330150753**
Status : **Answered**
Chosen Option : **2**

Q.25 If $\cot A + \cos A = p$ and $\cot A - \cos A = q$, then which of the following relation is correct?

Ans

✗ 1. $\sqrt{\dfrac{1}{16pq}} = p^2 + q^2$

✗ 2. $\dfrac{1}{4pq} = p^2 + q^2$

✔ 3. $\sqrt{16pq} = p^2 - q^2$

✗ 4. $4pq = p^2 + q^2$

Section : **General Awareness**

Q.1 Which of the following is a straight-chain alkane containing 12 carbon atoms that are used as a major component in kerosene and some jet fuel research and also in the rubber and paper processing industry?

Ans

✗ 1. Undecane

✗ 2. Eicosane

✗ 3. Heptadecane

✔ 4. Dodecane

Q.2 Which of the following crops can be grown during the Kharif season in India?

Ans

✗ 1. Gram

✗ 2. Mustard

✗ 3. Wheat

✔ 4. Cotton

Q.3 In which session of All India Congress Committee was the Quit India Resolution accepted?

Ans

✗ 1. Calcutta

✗ 2. Delhi

✗ 3. Madras

✔ 4. Bombay

Q.4 Jaimal and Patta were the warriors who were given charge of defending the fort of _____.

Ans
- ✗ 1. Raisen
- ✗ 2. Ajmer
- ✗ 3. Udaipur
- ✓ 4. Chittor

Question ID : **264330148573**
Status : **Not Answered**
Chosen Option : **--**

Q.5 What is the Inter Tropical Convergence Zone (ITCZ)?

Ans
- ✗ 1. A region with a high annual rainfall
- ✓ 2. A low-pressure zone located at the equator
- ✗ 3. A zone where air tends to descend
- ✗ 4. A high-pressure zone located at the equator

Question ID : **264330149357**
Status : **Answered**
Chosen Option : **3**

Q.6 Who among the following Indian grandmasters won the Bronze medal at FIDE World Rapid and Blitz Championship 2022?

Ans
- ✓ 1. Savitha Shri
- ✗ 2. Harika Dronavalli
- ✗ 3. Koneru Hampi
- ✗ 4. Tania Sachdev

Question ID : **264330154811**
Status : **Not Answered**
Chosen Option : **--**

Q.7 Who among the following is a famous music director?

Ans
- ✓ 1. Khayyam
- ✗ 2. Sameer
- ✗ 3. Anjaan
- ✗ 4. Kaifi Azmi

Question ID : **264330144780**
Status : **Answered**
Chosen Option : **2**

Q.8 Mir Qasim name is associated with which of the following battles of India?

Ans
✗ 1. Battle of Kirkee
✓ 2. Battle of Buxar
✗ 3. Battle of Plassey
✗ 4. Battle of Lahore

Question ID : **264330148590**
Status : **Answered**
Chosen Option : **2**

Q.9 What is the only sport specifically designed to be played by participants of both genders simultaneously?

Ans
✗ 1. Netball
✗ 2. Quidditch
✓ 3. Korfball
✗ 4. Basketball

Question ID : **264330145893**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.10 Which of the following countries is NOT a member of SAARC (South Asian Association for Regional Cooperation)?

Ans
✗ 1. Pakistan
✓ 2. Myanmar
✗ 3. Afghanistan
✗ 4. Bhutan

Question ID : **264330149405**
Status : **Answered**
Chosen Option : **2**

Q.11 With a stretch of about 724 km, which river is one of the most important rivers of peninsular India?

Ans
✓ 1. Tapi
✗ 2. Beas
✗ 3. Palar
✗ 4. Bhavani

Question ID : **264330152276**
Status : **Answered**
Chosen Option : **4**

Q.12 The Central Universities (Amendment) Bill 2022 proposed to convert _____ as Gati Shakti Vishwavidyalaya.

Ans ✗ 1. National Infrastructure and Industrial Institute

✗ 2. National Energy and Environment Institute

✓ 3. National Rail and Transportation Institute

✗ 4. National Transport and Infrastructure Institute

Question ID : 264330145952
Status : **Answered**
Chosen Option : **3**

Q.13 What is the change in fiscal deficit if both the primary deficit and interest payments are doubled?

Ans ✓ 1. Increase by 100%

✗ 2. Increase by 200%

✗ 3. Decrease by 50%

✗ 4. Decrease by 100%

Question ID : 264330145745
Status : **Not Answered**
Chosen Option : **--**

Q.14 In any economy, the income velocity of the hoarded money (idle) by the public is equal to_____.

Ans ✗ 1. one

✗ 2. greater than one

✓ 3. zero

✗ 4. greater than zero

Question ID : 264330146117
Status : **Not Answered**
Chosen Option : **--**

Q.15 Who, in the 1860s, undertook a thorough investigation of the gas laws expressing the relationships of pressure, temperature and volume in carbon dioxide?

Ans ✓ 1. Thomas Andrews

✗ 2. Giulio Natta

✗ 3. John Dalton

✗ 4. Marguerite Perey

Question ID : 264330150723
Status : **Answered**
Chosen Option : **4**

Q.16 Which cell analysis technique is used to rapidly analyse single cells or particles as they flow through single or multiple lasers while suspended in a buffered salt-based solution?

Ans ✗ 1. Mass spectroscopy

✓ 2. Flow cytometry

✗ 3. Electrochemical analysis

✗ 4. Multiple displacement amplification

Question ID : **264330145619**
Status : **Answered**
Chosen Option : **1**

Q.17 _____ won the bronze medal in the women's 10 m air rifle event at the ISSF World Cup 2023 in Cairo, Egypt.

Ans ✗ 1. Sift Kaur Samra

✓ 2. Tilottama Sen

✗ 3. Shreyasi Singh

✗ 4. Nivetha Paramanantham

Question ID : **264330146294**
Status : **Answered**
Chosen Option : **3**

Q.18 Lui Ngai Ni is a festival that is associated with which of the following states?

Ans ✓ 1. Manipur

✗ 2. Uttar Pradesh

✗ 3. Uttarakhand

✗ 4. Himachal Pradesh

Question ID : **264330151210**
Status : **Answered**
Chosen Option : **1**

Q.19 Gulabo Sapera is associated to which of the following dance form?

Ans ✗ 1. Sattriya

✗ 2. Kuchipudi

✓ 3. Kalbelia

✗ 4. Pandavani

Question ID : **264330148645**
Status : **Answered**
Chosen Option : **3**

Q.20 The measures of money supply, namely, M1, M2, M3 and M4, in this order, indicate:

Ans
- ✗ 1. decreasing order of earning capacity
- ✗ 2. increasing order of liquidity
- ✓ 3. decreasing order of liquidity
- ✗ 4. decreasing order of store of value

Question ID : **264330144688**
Status : **Answered**
Chosen Option : **2**

Q.21 Which of the following is a feature of the Directive Principles of State Policy of the Indian Constitution ?

Ans
- ✓ 1. Are non-justiciable
- ✗ 2. Are available against state
- ✗ 3. Can be suspended during emergency
- ✗ 4. Are negative in nature

Question ID : **264330146559**
Status : **Answered**
Chosen Option : **1**

Q.22 From which five-year plan onwards in India, were fiscal and economic reforms including liberalization adopted?

Ans
- ✓ 1. Eighth Five Year Plan
- ✗ 2. Seventh Five Year Plan
- ✗ 3. Sixth Five Year Plan
- ✗ 4. Ninth Five Year Plan

Question ID : **264330144714**
Status : **Answered**
Chosen Option : **3**

Q.23 Usually, the reduction in the taxes will have _____ multiplier effect compared to an increase in government spending on aggregate demand.

Ans
- ✗ 1. no
- ✓ 2. smaller
- ✗ 3. higher
- ✗ 4. equivalent

Question ID : **264330151336**
Status : **Not Answered**
Chosen Option : **--**

Q.24 Which of the following statements about fundamental rights mentioned in the Indian Constitution is FALSE?

Ans
✗ 1. They provide necessary conditions for moral protection.

✗ 2. The lay down the foundation for social justice.

✗ 3. They provide necessary conditions for material protection.

✓ 4.

They provide necessary conditions for practicing untouchability.

Question ID : **264330145933**
Status : **Answered**
Chosen Option : **3**

Q.25 Indian Classical dancer Kumkum Dhar was awarded Sangeet Natak Akademi Award 2020 for her contribution to _____.

Ans
✗ 1. Odissi

✗ 2. Bharatanatyam

✓ 3. Kathak

✗ 4. Manipuri

Question ID : **264330145802**
Status : **Answered**
Chosen Option : **1**