Section : **General Awareness**

Q.1 **Who is the author of the book The Buddha and His Dhamma?**

Ans ✗ 1. Sarojini Naidu

✗ 2. Rajmohan Gandhi

✓ 3. B R Ambedkar

✗ 4. Jawaharlal Nehru

Q.2 **In which medical condition is the eye's optic nerve damaged and the condition worsens over time?**

Ans ✓ 1. Glaucoma

✗ 2. Cataract

✗ 3. Dry Eye

✗ 4. Age-related Macular Degeneration (AMD)

Q.3 **Who among the following is/was the longest serving governor of an Indian state?**

Ans ✗ 1. Sarojini Naidu

✓ 2. Padmaja Naidu

✗ 3. N D Tiwari

✗ 4. Lakshmi Kant Jha

Q.4 **Which of the following is the highest peak in Sri Lanka?**

Ans ✗ 1. Kirigalpotta

✗ 2. Bible Rock

✗ 3. Hakgala

✔ 4. Mount Pedro

Q.5 Identify the part of brain that controls the maintenance of posture, balance and equilibrium.

Ans ✗ 1. Diencephalon

✔ 2. Cerebellum

✗ 3. Cerebrum

✗ 4. Brainstem

Q.6 Which of the following is the national sport of Bangladesh?

Ans ✗ 1. Boxing

✔ 2. Kabaddi

✗ 3. Cricket

✗ 4. Kho Kho

Q.7 Which theory is used to make long-run predictions about exchange rates in a flexible exchange rate system?

Ans ✗ 1. Portfolio Balance Approach

✔ 2. Purchasing Power Parity Theory

✗ 3. Interest Rate Approach

✗ 4. Balance of Payment Theory

Q.8 As of April 2019 who is longest serving chief minister of an Indian state?

Ans ✔ 1. Pawan Chamling

✗ 2. Jyoti Basu

✗ 3. Sheila Dixit

✗ 4. Jayalalitha

Q.9 Who was the first Russian prime minister to visit independent India?

Ans ✔ 1. Nikolai Bulganin

✘ 2. Mikhail Gorbachev

✘ 3. Boris Yeltsin

✘ 4. Vladimir Putin

Q.10 In December 2018, Havelock Island was renamed as _____.

Ans ✘ 1. Veer Savarkar Island

✘ 2. Netaji Subhash Bose Island

✔ 3. Swaraj Dweep

✘ 4. Swaheed Dweep

Q.11 Which state of India was ruled by the Ahom Dynasty?

Ans ✘ 1. Rajasthan

✔ 2. Assam

✘ 3. Odisha

✘ 4. Karnataka

Q.12 Byopa is a traditional headgear of tribes belonging to _____.

Ans ✔ 1. Arunachal Pradesh

✘ 2. Goa

✘ 3. Jharkhand

✘ 4. Kerala

Q.13 How many sessions of the Lok Sabha are normally held in a year?

Ans ✘ 1. 5

✔ 2. 3

✘ 3. 7

✘ 4. 2

Q.14 Which was the wettest place in India in 2018 as per the India Meteorological Department (IMD)?

Ans
- ✗ 1. Cherrapunji
- ✗ 2. Mawsynram
- ✗ 3. Ooty
- ✔ 4. Mahabaleshwar

Q.15 Wind turbines convert _____ energy into mechanical power.

Ans
- ✗ 1. gravitational
- ✗ 2. chemical
- ✔ 3. kinetic
- ✗ 4. nuclear

Q.16 In which part of the body is blood produced?

Ans
- ✗ 1. Lungs
- ✗ 2. Brain
- ✗ 3. Heart
- ✔ 4. Bone Marrow

Q.17 Which theory in economics proposes that countries export what they can most efficiently and plentifully produce?

Ans
- ✗ 1. Cournot Competition
- ✔ 2. Heckscher-Ohlin Model
- ✗ 3. Input-Output Model
- ✗ 4. Solow-Swan Model

Q.18 Who among the following was the last Nawab of Awadh?

Ans
- ✔ 1. Wajid Ali Shah
- ✗ 2. Saadat Ali Khan

✗ 3. Amjad Ali Khan

✗ 4. Muhammad Mukim

Q.19 Which of the following is the largest container port of India?

Ans   ✔ 1. Jawaharlal Nehru Port

✗ 2. Chhatrapati Shivaji Port

✗ 3. Paradip Port

✗ 4. Ennore Port

Q.20 Chepu is a unique cultural symbol of _____.

Ans   ✗ 1. Bhutan

✗ 2. China

✗ 3. Myanmar (Burma)

✔ 4. Nepal

Q.21 Name the comprehensive pension management system developed by the Department of Telecom in December 2018.

Ans   ✗ 1. SAMADHAN

✗ 2. VIGYAN

✔ 3. SAMPANN

✗ 4. ACHARAN

Q.22 With which sport is the term bleeder associated?

Ans   ✗ 1. Volleyball

✗ 2. Swimming

✗ 3. Cricket

✔ 4. Boxing

Q.23 What was the theme of World AIDS Day 2018?

Ans
- ✗ 1. We Shall Overcome
- ✔ 2. Know your Status
- ✗ 3. Save Yourself
- ✗ 4. Check Yourself

Q.24 In which year was the Battle of Saragarhi fought?

Ans
- ✗ 1. 1867
- ✔ 2. 1897
- ✗ 3. 1878
- ✗ 4. 1854

Q.25 The study of insects is called _____.

Ans
- ✗ 1. Anthropology
- ✔ 2. Entomology
- ✗ 3. Ornithology
- ✗ 4. Geology

Section : **English Comprehension**

Q.1 **Select the correctly spelt word.**

Ans ✗ 1. sweatter

✗ 2. teribble

✗ 3. clettering

✔ 4. scissors

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

I am quite satisfied that I have not been _____ in doing whatever was needful for building up their character.

Ans ✗ 1. devoted

✗ 2. caring

✗ 3. affectionate

✔ 4. negligent

Q.3 Given below are four jumbled sentences. Select the option that gives their correct order.

A. He would sit at the edge of her mother's bed and stare into her crib.
B. Arvind bumbled down the interminable corridor, suddenly reminded of his daughter in the days after she was born.
C. As a proportion to the fragment of life his daughter had seen, an hour was a vast sprawling space.
D. Some days he would imagine the world through her eyes and he would feel in his heart how long an hour actually was.

Ans   ✘ 1. ABCD

  ✘ 2. DACB

  ✔ 3. BADC

  ✘ 4. BCDA

Q.4 Select the most appropriate antonym of the given word.

PUBLIC

Ans   ✔ 1. private

  ✘ 2. resticted

  ✘ 3. ready

  ✘ 4. common

Q.5 In the sentence identify the segment which contains the grammatical error.

You may left the class when you have completed the test.

Ans   ✔ 1. You may left

  ✘ 2. completed the test

  ✘ 3. when you have

  ✘ 4. the class

Q.6 Select the most appropriate synonym of the given word.

HOSTILITY

Ans   ✘ 1. friendship

  ✘ 2. goodwill

  ✘ 3. sympathy

  ✔ 4. enmity

Q.7 Select the most appropriate meaning of the underlined idiom in the given sentence.

Let us have all the regulations <u>in black and white.</u>

Ans ✗ 1. printed in coloured ink

✔ 2. in writing

✗ 3. painted in colour

✗ 4. written on the black- board

Q.8 Select the most appropriate synonym of the given word.

INSULT

Ans ✗ 1. apply

✗ 2. remove

✔ 3. offend

✗ 4. offer

Q.9 Select the correctly spelt word.

Ans ✗ 1. mantion

✔ 2. mention

✗ 3. mension

✗ 4. mentoin

Q.10 Select the most appropriate antonym of the given word.

PROGRESSIVE

Ans ✗ 1. aristocratic

✔ 2. conservative

✗ 3. moving

✗ 4. repeated

Q.11 Select the most appropriate option to substitute the underlined segment in the given sentence.

If no substitution is required, select No improvement.

The female ostrich guards the nest at night and the male guard it in the day.

Ans ✔ 1. guards it during the day.

✘ 2. No improvement

✘ 3. guard it during the day.

✘ 4. guarding it during day.

Q.12 Select the most appropriate option to fill in the blank.

Today, _____ society is literally poisoning the earth with acid rain.

Ans ✘ 1. growing

✘ 2. developing

✘ 3. cosmopolitan

✔ 4. industrialised

Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Marine Conservation Society is hosting the Anjarle Turtle festival 2019, aiming to make more people aware about Olive Ridley turtles. The sea (1)_____ get their names from their olive-coloured (2)_____ They grow to about two feet in (3)_____ and reportedly mate at around 1000 kilometers from the Anjarle (4)_____ These turtles come to the beach to lay (5)_____.

SubQuestion No : 13

Q.13 Select the most appropriate option to fill in blank No.(1)

Ans ✘ 1. fish

✘ 2. animal

✘ 3. snakes

✔ 4. turtles

Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Marine Conservation Society is hosting the Anjarle Turtle festival 2019, aiming to make more people aware about Olive Ridley turtles. The sea (1)_____ get their names from their olive-coloured (2)_____ They grow to about two feet in (3)_____ and reportedly mate at around 1000 kilometers from the Anjarle (4)_____ These turtles come to the beach to lay (5)_____.

SubQuestion No : 14

Q.14 Select the most appropriate option to fill in blank No.(2)

Ans ✔ 1. shells

✗ 2. wings

✗ 3. beaks

✗ 4. feathers

Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Marine Conservation Society is hosting the Anjarle Turtle festival 2019, aiming to make more people aware about Olive Ridley turtles. The sea (1) _____ get their names from their olive-coloured (2)_____ They grow to about two feet in (3)_____ and reportedly mate at around 1000 kilometers from the Anjarle (4)_____ These turtles come to the beach to lay (5)_____.

SubQuestion No : 15

Q.15 Select the most appropriate option to fill in blank No.(3)

Ans ✔ 1. length

✗ 2. depth

✗ 3. weight

✗ 4. growth

Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Marine Conservation Society is hosting the Anjarle Turtle festival 2019, aiming to make more people aware about Olive Ridley turtles. The sea (1) _____ get their names from their olive-coloured (2)_____ They grow to about two feet in (3)_____ and reportedly mate at around 1000 kilometers from the Anjarle (4)_____ These turtles come to the beach to lay (5)_____.

SubQuestion No : 16

Q.16 Select the most appropriate option to fill in blank No.(4)

Ans ✔ 1. beach

✗ 2. festival

✗ 3. sea

✗ 4. sand

Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Marine Conservation Society is hosting the Anjarle Turtle festival 2019, aiming to make more people aware about Olive Ridley turtles. The sea (1) _____ get their names from their olive-coloured (2)_____ They grow to about two feet in (3)_____ and reportedly mate at around 1000 kilometers from the Anjarle (4)_____ These turtles come to the beach to lay (5)_____.

SubQuestion No : 17

Q.17 Select the most appropriate option to fill in blank No.(5)

Ans ✔ 1. eggs

✘ 2. pebbles

✘ 3. shells

✘ 4. young ones

Q.18 Select the correct passive form of the given sentence.

They will put away their woollens after the festival of Holi.

Ans ✔ 1. Their woollens will be put away after the festival of Holi.

✘ 2. Their woollens are being put away after the festival of Holi.

✘ 3. Their woollens are put away after the festival of Holi.

✘ 4. Their woollens have been put away after the festival of Holi.

Q.19 In the sentence identify the segment which contains the grammatical error.

Although there are more than a hundred known elements, they rarely occur at a pure state.

Ans ✘ 1. Although there are

✘ 2. they rarely occur

✔ 3. at a pure state

✘ 4. more than a hundred

Q.20 Select the most appropriate option to substitute the underlined segment in the given sentence.

If no substitution is required, select No improvement.

How long you are living in this city?

Ans ✘ 1. are you live

✘ 2. are you been living

✘ 3. No improvement

✔ 4. have you lived

Q.21 Select the word which means the same as the group of words given.

liable to break easily

Ans ✘ 1. soft

✔ 2. brittle

✘ 3. bent

✘ 4. thin

Q.22 Select the most appropriate meaning of the underlined idiom in the given sentence.

The invigilator did not know that the two boys were exchanging notes <u>under his nose.</u>

Ans ✘ 1. rolled into small pellets

✔ 2. right in front of him

✘ 3. wrapped in handkerchiefs

✘ 4. written in small letters

Q.23 Given below are four jumbled sentences. Select the option that gives their correct order.

A. It is a popular tourist spot for watching the sunset and sunrise over the ocean.
B. Kanyakumari is a coastal town in the State of Tamil Nadu on India's southern tip.
C. It is also a noted pilgrimage site, thanks to its Bagvathi Amman Temple and Our Lady of Ransom Church, a centre of Indian Catholicism.
D. Jutting out into the Laccadive sea, the town was known as Cape Comorin during the British rule.

Ans ✘ 1. BCDA

✘ 2. DCAB

✔ 3. BDAC

✘ 4. ACDB

Q.24 Select the word which means the same as the group of words given.

impossible to satisfy

Ans ✘ 1. satisfactory

✔ 2. insatiable

✘ 3. satisfiable

✘ 4. contented

Q.25 Select the correct active form of the given sentence.

Rudra was laughed at by all his friends when he wore his socks inside- out.

Ans ✔ 1. All his friends laughed at Rudra when he wore his socks inside-out.

✗ 2. All his friends will be laughing at Rudra for wearing his socks inside-out.

✗ 3. If Rudra wears his socks inside-out all his friends will laugh at him.

✗ 4. When Rudra wore his socks inside-out all his friends were laughing at him.

CGLE- Combined Graduate Level Tier-I, 2018 Examination

Section : **General Intelligence and Reasoning**

Q.1 Select the term that will come next in the following series.

114, 127, 153, 192, 244, ?

Ans ✔ 1. 309

✘ 2. 284

✘ 3. 361

✘ 4. 344

Q.2 In a code language, if LAMINATE is coded as 121139141205, then how will SYSTEMIC be coded in the same language?

Ans ✘ 1. 1925192051383

✘ 2. 1925192051493

✘ 3. 1825182051393

✔ 4. 1925192051393

Q.3 Select the missing number from the given options.

2	3	5
125	343	216
3	4	?

Ans ✘ 1. 2

✘ 2. 4

✘ 3. 3

✔ 4. 1

Q.4 Arrange the following words in a logical and meaningful order.
1. Wrist
2. Nails
3. Shoulder
4. Elbow
5. Palm
6. Fingers

Ans ✗ 1. 3, 5, 1, 4, 6, 2

✗ 2. 3, 1, 4, 2, 5, 6

✗ 3. 3, 4, 1, 2, 5, 6

✔ 4. 3, 4, 1, 5, 6, 2

Q.5 In a code language, TROPICAL is written as PORTLACI. How will DISTANCE be written in that language?

Ans ✗ 1. TSIDECAN

✗ 2. ISTSNAEF

✔ 3. TSIDECNA

✗ 4. STIDECNA

Q.6 Select the word-pair in which the two words are related in the same way as the two words in the following word-pair.

Dirty : Filthy

Ans ✗ 1. Bright : Sunlight

✔ 2. Shy : Timid

✗ 3. Cute : Child

✗ 4. Perfect : Unique

Q.7 Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

Ans ✗ 1. Indigo

✗ 2. Orange

✔ 3. Silver

**Q.8** Select the figure in which the given figure is embedded.
(Rotation is not allowed)

Ans

✔ 1.

✗ 2.

✗ 3.

✗ 4.
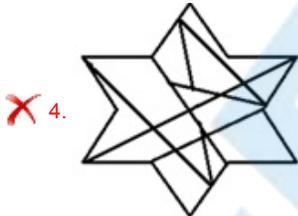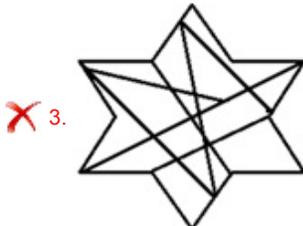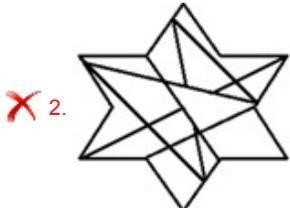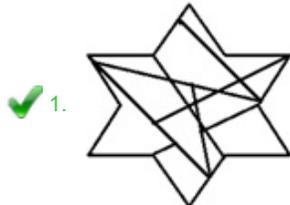
Q.9 How many triangles are there in the following figure?

Ans ✗ 1. 22

✔ 2. 18

✗ 3. 16

✗ 4. 20

Q.10 Select the option that is related to the third number in the same way as the second number is related to the first number.

12 : 192 : : 15 : ?

Ans   ✗ 1. 225

✗ 2. 245

✗ 3. 250

✔ 4. 240

Q.11 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

Ans   ✗ 1. UYCGK

✔ 2. RVZDG

✗ 3. AEIMQ

✗ 4. DHLPT

Q.12 Select the figure that will come next in the following figure series.

Ans

✗ 1.

✗ 2.

✔ 3.

✗ 4.

Q.13 'Heart' is related to 'Circulation' in the same way as 'Kidney' is related to '_____'.

Ans
- ✗ 1. Energy Production
- ✔ 2. Excretion
- ✗ 3. Reproduction
- ✗ 4. Respiration

Q.14 Which two signs should be interchanged to make the following equation correct?

$5 + 16 - 4 \times 14 + 2 - 59$

Ans
- ✗ 1. × and +
- ✗ 2. ÷ and ×
- ✔ 3. ÷ and −
- ✗ 4. + and −

Q.15 Two 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 conclusions logically follow(s) from the statements.

Statements:
All utensils are spoons.
All bowls are spoons.

Conclusions:
I. No utensil is a bowl.
II. Some utensils are bowls.
III. No spoon is a utensil.

Ans
- ✗ 1. Only conclusion III follows
- ✗ 2. Conclusions I and III follow
- ✔ 3. Either conclusion I or II follows
- ✗ 4. Only conclusions I follows

Q.16 Select the missing number from the given options.

36	52	86
28	40	12
32	46	?

Ans

✖ 1. 53

✔ 2. 49

✖ 3. 43

✖ 4. 51

Q.17 Three of the following four number pairs are alike in a certain way and one is different. Pick the odd pair out.

Ans

✖ 1. 4 : 27

✖ 2. 16 : 125

✖ 3. 9 : 64

✔ 4. 49 : 218

Q.18 In the Venn diagram on shown here, the triangle represents 'students', the circle represents 'diploma holders' and the quadrilateral represents 'graduates'. The numbers given in the diagram represents number of persons of that particular category.
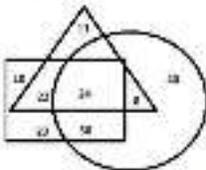
How many students are diploma holders but NOT graduates?

Ans

✖ 1. 30

✔ 2. 8

✖ 3. 40

✖ 4. 11

Q.19

'A + B' means 'A is the sister of B'
'A – B' means 'A is the daughter of B'
'A × B' means 'A is the brother of B'
'A ÷ B' means 'A is the husband of B'

If V + U × Q – T ÷ R + P × S, then how is P related to V?

Ans   ✗ 1. Maternal aunt

✗ 2. Paternal uncle

✗ 3. Paternal aunt

✔ 4. Maternal uncle

Q.20 Select the term that will come next in the following series.

M, E, P, H, S, ?, V, N

Ans   ✗ 1. M

✔ 2. K

✗ 3. U

✗ 4. J

Q.21 Select the term that will come next in the following series.

DGJ, BDN, ZAR, XXV, ?

Ans   ✔ 1. VUZ

✗ 2. UUZ

✗ 3. VTZ

✗ 4. VUY

Q.22 Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.


Ans

✔ 1.

X 2.

X 3.

X 4.

Q.23 Three different positions of the same dice are shown here. Which number is on the face opposite the face showing '3'?

Ans ✔ 1. 2

X 2. 3

X 3. 1
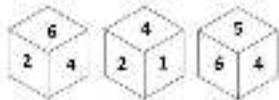
X 4. 6

Q.24 The sum of the current ages of Shipra and Malini is 65 years. After 5 years, Shipra's age will be 15 years more than Malini's age. What is Malini's current age?

Ans **X** 1. 15 years

X 2. 20 years

✔ 3. 25 years

X 4. 30 years

Q.25 Given below is a transparent sheet of paper with some patterns drawn on it. How would the transparent sheet look when it is folded on the dotted line?


Ans

X 1.

✔ 2.
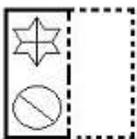
✗ 3.
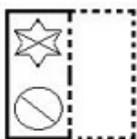
✗ 4.
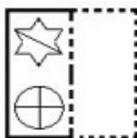
Section : **Quantitative Aptitude**

Q.1 The value of $15.2 + 5.8 \div 2.9 \times 2 - 3.5 \times 2 \div 0.5$ is equal to:

Ans ✗ 1. 4.8

✗ 2. 5.4

✗ 3. 3.2

✔ 4. 5.2

Q.2 The value of $\sin^2 32° + \sin^2 58° - \sin 30° + \sec^2 60°$ is equal to:

Ans ✗ 1. 5.5

✗ 2. 4

✔ 3. 4.5

✗ 4. 3.5

Q.3 If $\csc 2\theta = \sec(3\theta - 15°)$, then θ is equal to:

Ans
- ✗ 1. 25°
- ✗ 2. 22°
- ✗ 3. 20°
- ✔ 4. 21°

Q.4 The difference between compound interest and simple interest on x at 15% per annum for 2 years is ₹9. What is the value of x?

Ans
- ✗ 1. 450
- ✗ 2. 500
- ✗ 3. 600
- ✔ 4. 400

Q.5 In a circle with centre O, an arc ABC subtends an angle of 110° at the centre of the circle. The chord AB is produced to a point R. Then ∠CBR is equal to

Ans
- ✔ 1. 55°
- ✗ 2. 70°
- ✗ 3. 60°
- ✗ 4. 65°

Q.6 An article is sold for ₹288 after successive discounts of 25% and x%. If the marked price of the article is ₹480, what is the value of x?

Ans
- ✗ 1. 15
- ✔ 2. 20
- ✗ 3. 18
- ✗ 4. 16

Q.7 In △ABC, P is a point on BC such that BP : PC = 4 : 11. If Q is the midpoint of BP, then ar(△ABQ) : ar(△ABC) is equal to.

Ans
- ✗ 1. 2 : 13

   ✖ 2. 2 : 11

   ✔ 3. 2 : 15

   ✖ 4. 3 : 13

Q.8 In a circle of radius 17 cm a chord is at a distance of 8 cm from the centre of the circle. What is the length of the chord?

Ans ✖ 1. 25 cm

   ✔ 2. 30 cm

   ✖ 3. 20 cm

   ✖ 4. 15 cm

Q.9 The Table shows the number of cars sold by three showrooms over a period of six years.

If the total number of cars sold by all three showrooms over the years is represented as a pie-chart, what is the central angle of the sector representing the total number of cars sold in the year 2013 (to the nearest whole number)?

Ans ✖ 1. 58°

   ✔ 2. 60°

   ✖ 3. 56°

   ✖ 4. 62°

Q.10 Two articles are sold for ₹962 each. On one, the seller gains 30% and on the other he loses 20%. What is his overall gain or loss percentage (correct to one decimal place)?

Ans ✔ 1. 5.7% loss

   ✖ 2. 6.0% gain

   ✖ 3. 5.7% gain

   ✖ 4. 6.0% loss

Q.11 If $\sqrt{x} + \frac{1}{\sqrt{x}} = \sqrt{6}$, then $x^2 + \frac{1}{x^2}$ is equal to:

Ans ✔ 1. 14

✗ 2. 16

✗ 3. 18

✗ 4. 12

Q.12 The table shows the number of cars sold by three showrooms over a period of six years.

Showroom	Year					
	2011	2012	2013	2014	2015	2016
A	590	480	520	620	650	630
B	450	420	530	610	520	480
C	400	450	460	520	540	450

What is the average number of cars sold by showroom A over the given six years (nearest to one decimal place)?

Ans ✔ 1. 566.7

✗ 2. 592.7

✗ 3. 594.7

✗ 4. 586.7

Q.13 △ABC~△DEF and ar(△ABC) : ar(△DEF) = 1 : 9. If AB = 8 cm, BC = 8 cm and AC = 12 cm, then DF is equal to

Ans ✗ 1. 6 cm

✗ 2. 9 cm

✔ 3. 12 cm

✗ 4. 18 cm

Q.14 Five cubes, each of edge 3 cm are joined end to end. What is the total surface area of the resulting cuboid, in cm²?

Ans ✗ 1. 280

✔ 2. 198

✗ 3. 270

✗ 4. 244

Q.15 The price of sugar is increased by 17%. A person wants to increase his expenditure by 3% only. By approximately what percent should he decrease his consumption?

Ans ✗ 1. 10.7

✗ 2. 10.9

✔ 3. 10.3
✘ 4. 9.9

Q.16 The Table shows the number of cars sold by three showrooms over a period of six years.

Showroom	Year					
	2011	2012	2013	2014	2015	2016
A	550	460	520	620	680	520
B	450	420	550	450	550	400
C	640	550	640	520	540	550

By what percent did the total number of cars sold by all three showrooms decrease during the year 2016, as compared to that in the year 2015 (nearest to one decimal place)?

Ans ✘ 1. 14.8%

✘ 2. 14.4%

✘ 3. 14.9%

✔ 4. 14.6%

Q.17 If $(5a - 3b) : (4a - 2b) = 2 : 3$, then a : b is equal to:

Ans ✔ 1. 5 : 7

✘ 2. 5 : 8

✘ 3. 2 : 3

✘ 4. 3 : 4

Q.18 What is the value of x so that the seven digit number 8439x53 is divisible by 99?

Ans ✘ 1. 9

✘ 2. 3

✘ 3. 6

✔ 4. 4

Q.19 Walking at $\frac{3}{9}$ of his usual speed, a person reaches his office 10 minutes later than the usual time. His usual time in minutes is:

Ans ✘ 1. 27

✔ 2. 35

✘ 3. 30

✘ 4. 42

Q.20 If $2\sin\theta = 5\cos\theta$, then $\frac{\sin\theta + \cos\theta}{\sin\theta - \cos\theta}$ is equal to:

Ans

✗ 1. $\frac{2}{3}$

✗ 2. $\frac{5}{3}$

✓ 3. $\frac{7}{3}$

✗ 4. $\frac{9}{5}$

Q.21 If $a - b = 5$ and $ab = 6$, then $(a^3 - b^3)$ is equal to:

Ans

✓ 1. 215

✗ 2. 90

✗ 3. 225

✗ 4. 155

Q.22 If $a + b + c = 10$ and $ab + bc + ca = 32$ then $a^3 + b^3 + c^3 - 3abc$ is equal to:

Ans

✗ 1. 70

✗ 2. 60

✗ 3. 50

✓ 4. 40

Q.23 In a class of 50 students, 40% are girls. The average marks of the whole class are 64.4 and the average of the boys' marks is 62. What is the average marks of the girls?

Ans

✓ 1. 68

✗ 2. 67

✗ 3. 66.8

✗ 4. 66.4

Q.24 The efficiencies of A, B and C are in the ratio of 5 : 3 : 2. Working together, they can complete a task in 21 hours. In how many hours will B alone complete 40% of that task?

Ans ✗ 1. 21

 ✔ 2. 28

 ✗ 3. 35

 ✗ 4. 24

Q.25 The Table shows the number of cars sold by three showrooms over a period of six years.

Showroom	Year					
	2011	2012	2013	2014	2015	2016
A	390	480	530	620	610	640
B	420	420	450	480	520	400
C	480	450	480	520	540	450

What is the ratio of the total cars sold by showroom B during the years 2014 and 2016 and the total cars sold by showroom C during 2015 and 2016?

Ans ✗ 1. 85 : 97

 ✔ 2. 88 : 97

 ✗ 3. 88 : 95

 ✗ 4. 86 : 97

Q.1 In 2015, aircraft maker Boeing developed a metal called _____, which is lighter than air and stronger than steel.

Ans ✖ 1. Titanium

✖ 2. Iridium

✖ 3. Molybdenum

✔ 4. Microlattice

Q.2 Who was the first Indian to win the Miss Universe title?

Ans ✔ 1. Sushmita Sen

✖ 2. Persis Khambatta

✖ 3. Reita Faria

✖ 4. Madhu Sapre

Q.3 _____ is a hearing-impaired Indian golfer who won her first professional title at the age of 18. In March 2019, she became the second Indian woman golfer to win on the 'Ladies European Tour'.

Ans ✔ 1. Diksha Dagar

✖ 2. Aditi Ashok

✖ 3. Gursimar Badwal

✖ 4. Vani Kapoor

Q.4 The Pradhan Mantri Shram Yogi Mandhan Yojana ensures old age protection for unorganised workers whose monthly income is less than or equal to _____.

Ans ✖ 1. ₹ 12,000

✖ 2. ₹ 10,000

✖ 3. ₹ 20,000

✔ 4. ₹ 15,000

Q.5 An adult human body has _____ bones.

Ans
  ✗ 1. 300

  ✗ 2. 208

  ✔ 3. 206

  ✗ 4. 312

Q.6 What was the historical name of the city of Guwahati?

Ans
  ✔ 1. Pragjyotishpur

  ✗ 2. Machilipattnam

  ✗ 3. Purushapura

  ✗ 4. Bhagyanagara

Q.7 People above the age of _____ years are NOT eligible for the Pradhan Mantri Shram Yogi Mandhan Yojana.

Ans
  ✗ 1. 50

  ✗ 2. 45

  ✔ 3. 40

  ✗ 4. 60

Q.8 The Ayushman Bharat Scheme introduced by the Government of India provides medical coverage of upto ₹ _____ per family per year.

Ans
  ✗ 1. 2 lakhs

  ✔ 2. 5 lakhs

  ✗ 3. 7 lakhs

  ✗ 4. 1 lakh

Q.9 As of 2018, India is the leading milk producing country in the world, accounting for approximately _____ of the global market share.

Ans
  ✗ 1. 15%

  ✔ 2. 19%

  ✗ 3. 17%

  ✗ 4. 22%

Q.10 The Khadi and Village Industries Commission Act was passed in the year _____.

Ans ✗ 1. 1965

✗ 2. 1948

✗ 3. 1964

✔ 4. 1956

Q.11 The approximate diameter of the sun is _____ times the diameter of Earth.

Ans ✔ 1. 109

✗ 2. 123

✗ 3. 92

✗ 4. 146

Q.12 _____ is the hottest planet in the solar system.

Ans ✗ 1. Mars

✗ 2. Earth

✗ 3. Mercury

✔ 4. Venus

Q.13 _____ was the first Chief Election Commissioner of India.

Ans ✗ 1. M S Gill

✔ 2. Sukumar Sen

✗ 3. T N Seshan

✗ 4. Sunil Arora

Q.14 Which team won the Ranji Trophy 2018-19?

Ans ✔ 1. Vidarbha

✗ 2. Karnataka

✗ 3. Saurashtra

✗ 4. Kerala

Q.15 The Micro, Small and Medium Enterprises Development Act was passed in the year
____.

Ans   ✗ 1. 2002

     ✔ 2. 2006

     ✗ 3. 2004

     ✗ 4. 2008

Q.16 Name the smallest district in India.

Ans   ✗ 1. Guntur

     ✗ 2. Alirajpur

     ✗ 3. Hailakandi

     ✔ 4. Mahe

Q.17 Name the westernmost point of India.

Ans   ✗ 1. Bharuch

     ✗ 2. Amreli

     ✗ 3. Dahod

     ✔ 4. Ghuar Mota

Q.18 Name the oldest operating port in India built by the British East India Company.

Ans   ✗ 1. Mumbai Port

     ✗ 2. Vishakapatnam Port

     ✗ 3. Chennai Port

     ✔ 4. Kolkata Port

Q.19 Which of the following is NOT a part of the 'Char Dham Yatra' in North India?

Ans   ✔ 1. Vaishno Devi

     ✗ 2. Kedarnath

     ✗ 3. Gangotri

Q.20 During the Sao Joao festivities, Goans present _____ to each other.

Ans ✗ 1. beer

✗ 2. flowers

✗ 3. fish

✓ 4. fruits

Q.21 _____ was named the cleanest city in the 'Swachh Survekshan Survey 2019'.

Ans ✓ 1. Indore

✗ 2. Mysuru

✗ 3. Surat

✗ 4. Ujjain

Q.22 The movement of the local farmers of Bardoli in Gujarat against the British in 1928 was led by _____.

Ans ✗ 1. Lal Bahadur Shashtri

✗ 2. Lokmanya Tilak

✗ 3. Jawaharlal Nehru

✓ 4. Vallabhbhai Patel

Q.23 Wilson's disease is an inherited disorder in which excessive amounts of _____ accumulate in the body.

Ans ✗ 1. sodium

✓ 2. copper

✗ 3. calcium

✗ 4. iron

Q.24 The 'Instrument of Surrender' which ended the Portuguese rule in India was signed on _____.

Ans

✗ 1. 29th December 1951

✔ 2. 19th December 1961

✗ 3. 15th August 1947

✗ 4. 26th January 1948

Q.25 The East India Company sent Captain William Hawkins to the court of Emperor _____ in 1608 to seek permission to open a factory at Surat.

Ans

✔ 1. Jahangir

✗ 2. Humayun

✗ 3. Akbar

✗ 4. Shah Jahan

Section : **English Comprehension**

Q.1 **Select the word which means the same as the group of words given.**

An instrument for measuring the atmospheric pressure

Ans ✗ 1. thermometer

✗ 2. altometer

✔ 3. barometer

✗ 4. ammeter

CGLE- Combined Graduate Level Tier-I, 2018 Examination

Section : **General Intelligence and Reasoning**

Q.1 Three of the following four words are alike in a certain way and one is different. Pick the odd one out.

Ans   ✗ 1. Seismology

     ✔ 2. Terminology

     ✗ 3. Cardiology

     ✗ 4. Pedology

Q.2 Arrange the following words in a logical and meaningful order.

1. Rajasthan
2. India
3. Jaipur
4. North India
5. Asia

Ans   ✔ 1. 3, 1, 4, 2, 5

     ✗ 2. 1, 3, 2, 4, 5

     ✗ 3. 3, 1, 2, 4, 5

     ✗ 4. 1, 3, 4, 2, 5

Q.3 Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

_ c _ bd _ cbcba _ a _ d6 _ a

Ans   ✗ 1. cdcbad

     ✔ 2. adabcd

     ✗ 3. bdbcba

     ✗ 4. acbcad

Q.4 Select the option that will fill in the blank and complete the given series.

0, 7, 26, 63, 124, 215, 342, 511, 728, ___

Ans   ✗ 1. 996

    ✓ 2. 999

    ✗ 3. 1001

    ✗ 4. 1000

**Q.5** Select the term that will come next in the following series.

11, 13, 17, 23, 31, 41, 53, 67, 83, ?

Ans   ✓ 1. 101

    ✗ 2. 100

    ✗ 3. 97

    ✗ 4. 110

Q.6 Choose the Venn diagram which best illustrates the relationship among the three given classes:

Fruit, Vegetable, Apple

Ans

✓ 1.

✗ 2.

✗ 3.
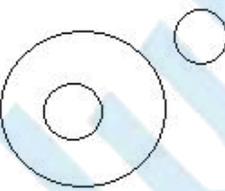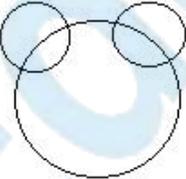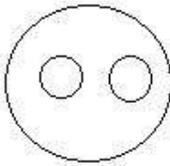
Q.7 Select the letter-cluster that is related to the third letter-cluster in the same way that the second letter-cluster is related to the first letter-cluster.

AHKP : BGLQ :: GLQV : ?

Ans ✗ 1. HMPW

✔ 2. HMRW

✗ 3. HNRW

✗ 4. HKRW

Q.8 Two 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 conclusions logically follow(s) from the statements.

Statements:
No grass is a flower.
All flowers are trees.

Conclusions:
I. Some trees are flowers.
II. Some trees are grasses.
III. No tree is a grass.

Ans ✗ 1. Only conclusion I follows

✗ 2. Either conclusion II or III follows

✔ 3. Either conclusions II or III, and I follow

✗ 4. Only conclusion III follows

Q.9 Select the option that will fill in the blank and complete the given series.

2, 5, 10, 17, 26, 37, ___ , 65, 82, 101

Ans ✗ 1. 54

✗ 2. 48

✔ 3. 50

✗ 4. 51

Q.10 If 'J' is coded as '20' and 'BAT' is coded as '40' then how will 'CRICKET' be coded?

Ans
✖ 1. 140
✖ 2. 142
✔ 3. 138
✖ 4. 158

Q.11 Select the word-pair in which the two words are related in the same way as the two words in the following word-pair.

School : Student :

Ans
✖ 1. College : Teacher
✖ 2. Hotel : Chef
✔ 3. Hospital : Patient
✖ 4. Court : Judge

Q.12 Select the correct mirror image of the following word when the mirror is placed to the right of the word.

HINT

Ans
✖ 1. HINT
✔ 2. ТИІН
✖ 3. TNIH
✖ 4. ТІИН

Q.13 Which two signs should be interchanged to make the following equation correct?

$20 \div 20 - 20 - 25 \times 25 = 419$

Ans
✖ 1. + and ÷
✔ 2. ÷ and ×
✖ 3. × and −
✖ 4. + and −

Q.14 Select the option that is related to the third number in the same way as the second number is related to the first number.

17 : 289 : : 25 : ___

Ans
✗ 1. 566

✔ 2. 625

✗ 3. 676

✗ 4. 652

Q.15 In a code language, FRIEND is written as GQJDOC. How will PEACE be written in that language?

Ans
✗ 1. QFBBF

✗ 2. ODBBF

✔ 3. QDBBF

✗ 4. QDBDF

Q.16 Three of the following four letters are alike in a certain way and one is different. Pick the odd one out.

Ans
✔ 1. V

✗ 2. U

✗ 3. E

✗ 4. I

Q.17 Select the figure that will come next in the following figure series.
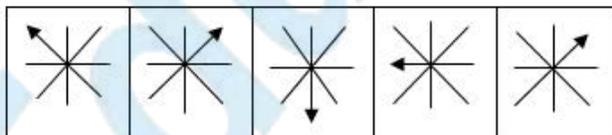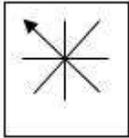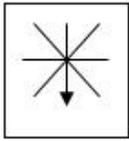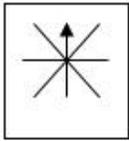

Ans

✔ 1.

✗ 2.

✗ 3.

✗ 4.

Q.18 Three of the following four number-pairs are alike in a certain way and one is different. Pick the odd number-pair out.

Ans ✗ 1. 225 : 15

✗ 2. 144 : 12

✔ 3. 123 : 11

✗ 4. 196 : 14

Q.19 Introducing Kavi, Veena said, "She is the sister of the son of the wife of my husband". How is Veena related to Kavi?

Ans ✗ 1. Aunt

✗ 2. Sister

✔ 3. Mother

✗ 4. Daughter

Q.20 How many triangles are there in the following figure?


Ans ✔ 1. 15

✗ 2. 9
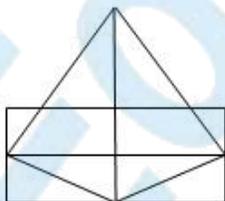
✗ 3. 10

Q.21 Given here is a square transparent sheet with a pattern on it. How would the pattern appear when the transparent sheet is folded on the dotted line?

Ans

✔ 1.

X 2.

X 3.
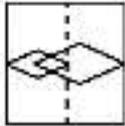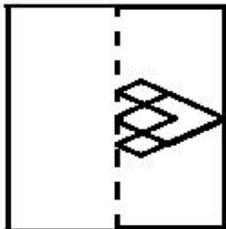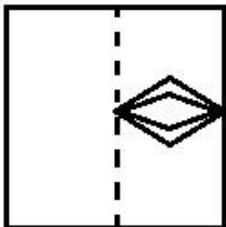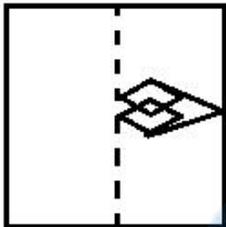
X 4.
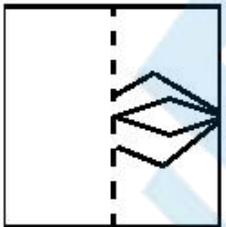
Q.22 If you wrote down all the numbers from 1 to 99, then how many times would you have written '7'?

Ans
X 1. 21

✔ 2. 20

X 3. 11

X 4. 19

Q.23 A cube enlarged pink on all faces is cut into 27 small cubes of equal sizes. How many cubes are painted on one face only?

Ans ✗ 1. 3

✔ 2. 6

✗ 3. 4

✗ 4. 8

Q.24 ACCIDENT is related to TNEDICCA in the same way as PASSENGER is related to '_____'.

Ans ✗ 1. REGNSESAP

✗ 2. RGENESSAP

✔ 3. REGNESSAP

✗ 4. REGMESSAP

Q.25 Select the figure in which the given figure is embedded.

Ans

✗ 1.

✔ 2.

✗ 3.

✗ 4.

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

In ancient Greece, women were not allowed to _____ in the Olympic Games.

Ans ✗ 1. collide

✗ 2. comply

✗ 3. cope

✔ 4. compete

Q.3 Select the most appropriate option to substitute the underlined segment in the given sentence.

If no substitution is required, select No improvement.

Scarcely <u>had he gone out than</u> a client came to meet him.

Ans ✗ 1. No improvement

✔ 2. had he gone out when

✗ 3. he had go out when

✗ 4. he had gone out than

Q.4 Select the most appropriate synonym of the given word.

FUSE (Verb)

Ans ✗ 1. correct

✗ 2. unused

✗ 3. break

✔ 4. combine

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

Colours, they say have the power to calm, pacify and relax; they can energise, activate and _____.

Ans ✔ 1. envigorate

✗ 2. interest

✗ 3. involve

✗ 4. enrage

Q.6 In the sentence identify the segment which contains the grammatical error.

"I done a lot of work today," she said.

Ans ✗ 1. she said

✗ 2. work today

✗ 3. a lot of

✔ 4. I done

Q.7 Select the most appropriate meaning of the underlined idiom in the given sentence.

"These glasses suit you to a T ," said Ria to Vandana.

Ans ✔ 1. look very good on your face

✗ 2. make you look weird

✗ 3. are not suitable for your work

✗ 4. need to be worn with a suit

Q.8 Select the correctly spelt word.

Ans ✗ 1. chuse

✗ 2. chooze

✗ 3. chooj

✔ 4. choose

Q.9 Select the correctly spelt word.

Ans ✗ 1. defnition

✗ 2. acceptence

✔ 3. scramble

✗ 4. jewlry

Q.10 Given below are four jumbled sentences. Select the option that gives their correct order.

A. Once the formalities are done, you can start using your account and save time and money.
B. Opening a bank account can seem intimidating.
C. Getting your account opened is just a matter of providing certain details and

funding your account.
D. Fortunately, most banks follow a standardized process.

Ans   ✗ 1. ADBC

     ✗ 2. BADC

     ✗ 3. CBDA

     ✔ 4. BDCA

Q.11 Select the word which means the same as the group of words given.

The part of a country's government responsible for its legal system

Ans   ✗ 1. police

     ✗ 2. executive

     ✔ 3. judiciary

     ✗ 4. legislature

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

ATTRIBUTE

Ans   ✗ 1. praise

     ✔ 2. quality

     ✗ 3. speech

     ✗ 4. respect

Q.13 Select the correct active form of the given sentence.

Dinesh was looked after by his grandmother when his parents went abroad.

Ans   ✗ 1. Dinesh looked after his grandmother when his parents went abroad.

     ✗ 2. Dinesh's grandmother looks after him when his parents went abroad.

     ✔ 3. Dinesh's grandmother looked after him when his parents went abroad.

     ✗ 4. Dinesh's grandmother was looking after him when his parents went abroad.

Q.14 Given below are four jumbled sentences. Select the option that gives their correct order.

A. A man on a bike had to ride on the pavement.
B. When he tried to plunge onto the road, a car hit him.
C. As the bus inched through the evening life, the traffic grew.
D. There was no space on the road any more.

Ans

  ✗ 1. CBAD

  ✗ 2. ADBC

  ✗ 3. DBCA

  ✔ 4. CDAB

Q.15 **Select the correct passive form of the given sentence.**

Ananya plucks fresh flowers from the garden every day.

Ans

  ✔ 1. Fresh flowers are plucked by Ananya from the garden every day.

  ✗ 2. Fresh flowers have been plucked by Ananya from the garden every day.

  ✗ 3. Fresh garden is plucked by Ananya from the flowers every day.

  ✗ 4. Fresh flowers were plucked by Ananya from the garden every day.

Q.16 **In the sentence identify the segment which contains the grammatical error.**

Entering the hall, the show had started.

Ans

  ✗ 1. the hall

  ✗ 2. had started

  ✗ 3. the show

  ✔ 4. Entering

Q.17 **Select the most appropriate option to substitute the underlined segment in the given sentence.**

If no substitution is required, select No improvement.

An old misunderstanding <u>exists among the two families</u>, so they are not friendly any more.

Ans

  ✗ 1. No improvement

  ✗ 2. will exist among the two families

  ✔ 3. exists between the two families

  ✗ 4. has exist within the two families

Q.18 **Select the most appropriate antonym of the given word.**

DEFICIT

Ans

  ✗ 1. credit

✗ 2. remove

✗ 3. adhere

✔ 4. surplus

Q.19 Select the most appropriate meaning of the underlined idiom in the given sentence.

The dog played in the pond <u>to his heart's content.</u>

Ans ✔ 1. as much as he wanted to

✗ 2. till he was completely sick

✗ 3. avoiding getting too wet

✗ 4. only upto his legs

Q.20 Select the most appropriate antonym of the given word.

ILLUMINATE

Ans ✗ 1. add

✔ 2. darken

✗ 3. light

✗ 4. erase

Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Dusk sets in at the Varagaliar elephant camp deep within the Anamalai Tiger Reserve (ATR). It's dinner time for the 25-year-old tusker and he's (1)_____ balls made of steamed ragi flour mixed (2)_____ some rice, green gram, salt and jaggery. (3)_____ are half-a-dozen Forest Department (4)_____ around, including V. Ganesan, the Field Director (5)_____ ATR.

SubQuestion No : 21

Q.21 Select the most appropriate option to fill in blank No.(1)

Ans ✗ 1. feeds

✔ 2. fed

✗ 3. feeding

✗ 4. feed

Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Dusk sets in at the Varagaliar elephant camp deep within the Anamalai Tiger Reserve (ATR). It's dinner time for the 25-year-old tusker and he's (1)_____ balls made of steamed ragi flour mixed (2)_____ some rice, green gram, salt and jaggery. (3)_____ are half-a-dozen Forest Department (4)_____ around, including V. Ganesan, the Field Director (5)_____ ATR.

SubQuestion No : 22

Q.22 Select the most appropriate option to fill in blank No.(2)

Ans   ✔ 1. with

       ✘ 2. of

       ✘ 3. from

       ✘ 4. by

Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Dusk sets in at the Varagaliar elephant camp deep within the Anamalai Tiger Reserve (ATR). It's dinner time for the 25-year-old tusker and he's (1)_____ balls made of steamed ragi flour mixed (2)_____ some rice, green gram, salt and jaggery. (3)_____ are half-a-dozen Forest Department (4)_____ around, including V. Ganesan, the Field Director (5)_____ ATR.

SubQuestion No : 23

Q.23 Select the most appropriate option to fill in blank No.(3)

Ans   ✔ 1. There

       ✘ 2. Nowhere

       ✘ 3. Everywhere

       ✘ 4. Here

Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Dusk sets in at the Varagaliar elephant camp deep within the Anamalai Tiger Reserve (ATR). It's dinner time for the 25-year-old tusker and he's (1)_____ balls made of steamed ragi flour mixed (2)_____ some rice, green gram, salt and jaggery. (3)_____ are half-a-dozen Forest Department (4)_____ around, including V. Ganesan, the Field Director (5)_____ ATR.

SubQuestion No : 24

Q.24 Select the most appropriate option to fill in blank No.(4)

Ans   ✘ 1. person

       ✔ 2. officials

       ✘ 3. employee

       ✘ 4. ministers

Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Dusk sets in at the Varagaliar elephant camp deep within the Anamalai Tiger Reserve (ATR). It's dinner time for the 25-year-old tusker and he's (1)_____ balls made of steamed ragi flour mixed (2)_____ some rice, green gram, salt and jaggery. (3)_____ are half-a-dozen Forest Department (4)_____ around, including V. Ganesan, the Field Director (5)_____ ATR.

SubQuestion No : 25

Q.25 Select the most appropriate option to fill in blank No.(5)

Ans ✔ 1. of

✗ 2. on

✗ 3. among

✗ 4. between

Section : **Quantitative Aptitude**

Q.1 In ΔABC, ∠A = 50°. Its sides AB and AC are produced to the point D and E. If the bisectors of the ∠CBD and ∠BCE meet at the point O, then ∠BOC will be equal to:

Ans ✔ 1. 65°

✘ 2. 40°

✘ 3. 55°

✘ 4. 75°

Q.2 $9\frac{3}{4} \div [2\frac{1}{6} \div \{4\frac{1}{3} - (2\frac{1}{2} + \frac{3}{4})\}]$ is equal to:

Ans ✘ 1. 3

✘ 2. 4

✔ 3. $\dfrac{39}{8}$

✘ 4. $\dfrac{15}{4}$

Q.3 If the selling price of 40 articles is equal to the cost price of 50 articles, then the percentage loss or gain is:

Ans ✘ 1. 20% loss

✗ 2. 25% loss

✗ 3. 20% gain

✔ 4. 25% gain

Q.4 Table shows the percentage of marks obtained by seven students in six different subjects in an examination. The numbers in the brackets are the maximum marks in each subject.

Students	Subject(Max. Marks)					
	Maths (130)	Chemistry (130)	Physics (130)	Geography (130)	History (60)	Computer Science (40)
A	90	50	90	60	70	80
B	100	80	80	40	80	70
C	90	60	70	70	90	70
D	80	65	80	60	60	60
E	80	65	65	85	50	90
F	70	75	65	65	40	60
G	65	35	30	77	80	80

What are the average marks obtained by all the seven students in Physics? (Correct to two decimal places)

Ans ✗ 1. 77.26

✔ 2. 89.14

✗ 3. 91.16

✗ 4. 93.14

Q.5 If $(x-5)^3 + (x-6)^3 + (x-7)^3 = 3(x-5)(x-6)(x-7)$, then what is the value of x?

Ans ✗ 1. 7

✗ 2. 18

✔ 3. 6

✗ 4. 5

Q.6 A starts walking at 4 kmph and after 4 hours, B starts cycling from the same point as that of A, in the same direction at 10 kmph. After how much distance from the starting point will B catch up with A? (Correct to two decimal places)

Ans ✗ 1. 23.67 km

✗ 2. 25.67 km

✔ 3. 26.67 km

✗ 4. 24.67 km

Q.7 What is the difference between a single discount of 30% and a single discount equivalent to two successive discounts of 25% and 5% being given in shopping of ₹1000?

Ans ✗ 1. No difference

✗ 2. ₹20

✗ 3. ₹15

✔ 4. ₹25

Q.8 If $x + \dfrac{1}{x} = 5$, then $x^3 + \dfrac{1}{x^3}$ is equal to:

Ans ✗ 1. 130

✗ 2. 125

✗ 3. 145

✔ 4. 110

Q.9 A earns ₹180 per hour and works for 7 hours per day. B earns ₹160 per hour and works for 8 hours per day. What is the ratio of per day wages of A and B?

Ans ✔ 1. 63 : 40

✗ 2. 20 : 30

✗ 3. 33 : 20

✗ 4. 40 : 61

Q.10 Table shows the annual Expenditure of a Company (in Lakh Rupees) over the years.

Head / Year	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	98

What is the average amount of Interest on loans (in Lakh rupees) which the company paid during the period 1998 to 2002?

Ans ✗ 1. 34.18

✔ 2. 36.66

✗ 3. 32.43

✗ 4. 33.72

Q.11 If the radius of the circumcircle of an equilateral triangle is 8 cm, then the measure of radius of its incircle is:

Ans
- ✗ 1. 16 cm
- ✗ 2. 12 cm
- ✔ 3. 4 cm
- ✗ 4. 8 cm

Q.12 ABCD is a cyclic quadrilateral such that AB is the diameter of the circle circumscribing it and $\angle ADC = 120°$. Then, $\angle BAC$ is equal to:

Ans
- ✗ 1. 51°
- ✗ 2. 49°
- ✗ 3. 61°
- ✔ 4. 39°

Q.13 PA and PB are tangents to a circle with centre O, from a point P outside the circle, and A and B are points on the circle. If $\angle APB = 40°$, then $\angle OAB$ is equal to:

Ans
- ✗ 1. 50°
- ✗ 2. 40°
- ✗ 3. 25°
- ✔ 4. 20°

Q.14 If $3\cos^2 A + 7\sin^2 A = 4$, then what is the value of cot A, given that A is an acute angle?

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

Q.15 If $a^3 - b^3 = 208$ and $a - b = 4$, then $(a + b)^2 - ab$ is equal to:

Ans
- ✔ 1. 52
- ✘ 2. 38
- ✘ 3. 42
- ✘ 4. 32

Q.16 If a sum amounts to ₹2,190 in four years and ₹2,409 in five years at compound interest, when the interest is compounded yearly, then the annual rate of interest is

Ans
- ✘ 1. 9%
- ✔ 2. 10%
- ✘ 3. 8%
- ✘ 4. 11%

Q.17 3 men, 4 women and 6 boys together can complete a work in 8 days. A woman does triple the work a man does and a boy does half the work a man does. How many women alone will be able to complete this work in 4 days?

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

Q.18 When an integer n is divided by 8, the remainder is 3. What will be the remainder if 6n-1 is divided by 8?

Ans
- ✔ 1. 1
- ✘ 2. 0
- ✘ 3. 2
- ✘ 4. 4

Q.19

Table shows the sales of books (in thousands) from six branches of a publishing company during 2000 and 2001.

Branches	B1	B2	B3	B4	B5	B6
Year						
2000	63	77	94	80	75	73
2001	108	81	115	95	95	90

What is the total sales of books from branches B1, B3 and B6 together for both the years (in thousands)?

Ans   ✔ 1. 540

   ✘ 2. 310

   ✘ 3. 240

   ✘ 4. 650

Q.20 A sphere of radius 6 cm is melted and recast into spheres of radius 2 cm each. How many such spheres can be made?

Ans   ✘ 1. 36

   ✘ 2. 24

   ✘ 3. 25

   ✔ 4. 27

Q.21 If tan$x$ = cot(45° + 2x), then what is value of x?

Ans   ✔ 1. 15°

   ✘ 2. 45°

   ✘ 3. 20°

   ✘ 4. $\dfrac{45°}{2}$

Q.22 Table shows the percentage distribution of the expenditure incurred on different items for publishing a book.

Item of expenditure	Percentage of expenditure
Paper	25
Printing	20
Binding	20
Royalty	15
Promotion	10
Transportation	10

Expenditure on Royalty is less than that on Printing by:

Ans   ✘ 1. 15%

   ✘ 2. 20%

   ✘ 3. 10%

✔️ 4. 25%

Q.23

The value of $\left[\dfrac{sin^2\,24° + sin^2\,66°}{cos^2\,24° + cos^2\,66°} + sin^2\,61° + cos\,61°\,sin\,29°\right]$ is:

Ans ❌ 1. 0

❌ 2. 1

✔️ 3. 2

❌ 4. 3

Q.24 The average of 27 numbers is zero. Out of them, how many may be greater than zero, at the most?

Ans ✔️ 1. 26

❌ 2. 15

❌ 3. 20

❌ 4. 0

Q.25 If 85% of a number is added to 75, then the result is the number itself. The number is:

Ans ✔️ 1. 500

❌ 2. 200

❌ 3. 300

❌ 4. 100