

Section : General Awareness

Q.1 A substantial increase in capital expenditure or revenue deficit leads to _____.

- Ans**
- ☒ 1. Fiscal Deficit
 - ☐ 2. Revenue Deficit
 - ☐ 3. Primary Deficit
 - ☐ 4. Budgetary Deficit

Q.2 Who was the last ruler of the Vaghela Dynasty of Gujarat after whose defeat the kingdom was passed to Alauddin Khilji?

- Ans**
- ☐ 1. Arjuna Deva
 - ☒ 2. Karandev
 - ☐ 3. Rama
 - ☐ 4. Saranga Deva

Q.3 What is the dominant chemical present in detergent powder?

- Ans
- ☐ 1. Hydrochloric acid
 - ☒ 2. Sodium carbonate
 - ☐ 3. Sodium alkyl sulphate
 - ☐ 4. Calcium carbonate

Q.4 What was India's rank among 156 countries in the Global Happiness Index 2019?

- Ans
- ☐ 1. 137th
 - ☐ 2. 124th
 - ☐ 3. 132nd
 - ☒ 4. 140th

Q.5 What effect will a decrease in demand and an increase in supply have on equilibrium price?

- Ans
- ☒ 1. Equilibrium price will fall
 - ☐ 2. Sometimes price will rise and sometimes it will fall
 - ☐ 3. Equilibrium price will be constant
 - ☐ 4. Equilibrium price will rise

Q.6 Which of the following is the highest mountain peak in Maharashtra?

- Ans
- ☐ 1. Anjaneri
 - ☐ 2. Salher
 - ☐ 3. Taramati
 - ☒ 4. Kalsubai Shikhar

Q.7 In the year _____, the Maratha Empire ceased to exist with the surrender of the Marathas to the British, ending the Third Anglo-Maratha War.

- Ans
- ☐ 1. 1806
 - ☐ 2. 1792
 - ☐ 3. 1811
 - ☒ 4. 1818

Q.8 Which state of India has the longest mainland coastline?

- Ans
- ☐ 1. Odisha
 - ☐ 2. Kerala
 - ☐ 3. Maharashtra
 - ☒ 4. Gujarat

Q.9 Which Indian badminton player was runner-up at the 2019 Swiss Open tournament?

- Ans
- ☐ 1. Parupalli Kashyap
 - ☒ 2. Sai Praneeth
 - ☐ 3. Kidambi Srikanth
 - ☐ 4. Chetan Anand

Q.10 Dashain' is the grandest festival of ____.

- Ans
- ☐ 1. Sri Lanka
 - ☐ 2. Bangladesh
 - ☒ 3. Nepal
 - ☐ 4. Bhutan

Q.11 Which Indian batsman was the first to hit six consecutive sixes in first-class cricket?

- Ans
- ☐ 1. Sachin Tendulkar
 - ☒ 2. Ravi Shastri
 - ☐ 3. Sunil Gavaskar
 - ☐ 4. Virat Kohli

Q.12 To which of the following Indian states does the tribe of 'Nyishi' belong?

- Ans
- ☐ 1. Chhattisgarh
 - ☐ 2. Tamil Nadu
 - ☐ 3. Bihar

✓ 4. Arunachal Pradesh

Q.13 _____ has been established as the annual 'International Day of Happiness'.

- Ans
- ✗ 1. 15th January
 - ✗ 2. 23rd February
 - ✗ 3. 31st March
 - ✓ 4. 20th March

Q.14 Which of the following Indian film-makers was given the title of 'Ambassador of Interlaken' in 2011 at Switzerland?

- Ans
- ✗ 1. Subhash Ghai
 - ✗ 2. Yash Johar
 - ✗ 3. Raj Kapoor
 - ✓ 4. Yash Chopra

Q.15 Which of the following is called the 'popular chamber'?

- Ans
- ✓ 1. Lok Sabha
 - ✗ 2. State Assembly
 - ✗ 3. Rajya Sabha
 - ✗ 4. Gram Sabha

Q.16 Who is the author of the book 'India Shastra: Reflections on the Nation in our Time'?

- Ans
- ✓ 1. Shashi Tharoor
 - ✗ 2. Manmohan Singh
 - ✗ 3. A P J Abdul Kalam
 - ✗ 4. Narendra Modi

Q.17 Which of the following countries is the largest producer of wheat in the world?

- Ans
- ✗ 1. Bangladesh

- ☒ 2. India
- ☒ 3. Myanmar (Burma)
- ☒ 4. China

Q.18 During World War II, the Battles of Kohima and Imphal were fought in the year ____.

- Ans ☒ 1. 1944
- ☒ 2. 1943
 - ☒ 3. 1942
 - ☒ 4. 1945

Q.19 Name the tissue that transports food to various parts of a plant.

- Ans ☒ 1. Sclerenchyma
- ☒ 2. Parenchyma
 - ☒ 3. Phloem
 - ☒ 4. Xylem

Q.20 ____ is well-known for the golden beautification of the Harmandir Sahib Gurdwara in Amritsar, famously known as the Golden Temple.

- Ans ☒ 1. Charat Singh
- ☒ 2. Maha Singh
 - ☒ 3. Ranjit Singh
 - ☒ 4. Duleep Singh

Q.21 Rajat has hypermetropia. What type of lens will the ophthalmologist recommend to correct his vision?

- Ans ☒ 1. Progressive
- ☒ 2. Bifocal
 - ☒ 3. Convex
 - ☒ 4. Concave

Q.22 The term 'Dolphin Kick' is associated with which sport?

- Ans
- ☒ 1. Cricket
 - ☒ 2. Football
 - ☒ 3. Swimming
 - ☒ 4. Rugby

Q.23 Which article of the Constitution of India provides that each Indian state will have a governor?

- Ans
- ☒ 1. Article 154
 - ☒ 2. Article 153
 - ☒ 3. Article 152
 - ☒ 4. Article 151

Q.24 What is the distinctive characteristic of 'marsupials'?

- Ans
- ☒ 1. They migrate from one place to another
 - ☒ 2. They hibernate in winter
 - ☒ 3. They carry young ones in pouches
 - ☒ 4. They lay eggs

Q.25 Blue litmus paper turns ____ on contact with an acidic solution.

- Ans
- ☒ 1. red
 - ☒ 2. yellow
 - ☒ 3. green
 - ☒ 4. brown

Section : English Comprehension

Q.1 Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.

Ishwarchand Vidyasagar use the ancient text to suggestion that widows could remarry.

- Ans
- ☒ 1. used the ancient texts suggests
 - ☒ 2. used the ancient texts to suggest
 - ☒ 3. use the ancient texts for suggestion
 - ☒ 4. No improvement

Q.2 Select the correct passive form of the given sentence.

Credit cards are replacing cash transactions.

- Ans
- ☒ 1. Cash transactions have been replaced by credit cards.
 - ☒ 2. Cash transactions are replaced by credit cards.
 - ☒ 3. Cash transactions had been replaced by credit cards.
 - ☒ 4. Cash transactions are being replaced by credit cards.

Q.3 Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.

I have not saw him since I last leave the town.

- Ans
- ☒ 1. seen him since I last left
 - ☒ 2. seen him for I last left
 - ☒ 3. No improvement
 - ☒ 4. see him since I last left

Q.4 Select the word which means the same as the group of words given.

A state of perfect balance

Ans

- ☒ 1. equinox
- ☒ 2. equilibrium
- ☒ 3. equivalent
- ☒ 4. equilateral

Q.5 Select the most appropriate meaning of the underlined idiom in the given sentence.

The man heaved a sigh of relief when he was sure he was out of the woods.

- Ans
- ☒ 1. discharged from hospital
 - ☒ 2. released from prison
 - ☒ 3. out of the forest
 - ☒ 4. out of danger

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

FOREIGN

- Ans
- ☒ 1. rural
 - ☒ 2. rustic
 - ☒ 3. native
 - ☒ 4. Indian

Q.7 Select the correctly spelt word.

- Ans
- ☒ 1. exhilerate
 - ☒ 2. exhilarate
 - ☒ 3. exilarate
 - ☒ 4. exilerate

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.

English is not a language that (1)_____ in India. But it is used extensively in (2)_____ country. India comes second on the list of countries (3)_____most English speakers,albeit not as the first language. English is more (4)_____than any single Indian language! It has managed to (5)_____the entire world.

SubQuestion No : 8

Q.8 Select the most appropriate option to fill in blank No.(1)

- Ans
- ☒ 1. created
 - ☒ 2. developed
 - ☒ 3. originated
 - ☒ 4. derived

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.

English is not a language that (1)_____ in India. But it is used extensively in (2)_____country. India comes second on the list of countries (3)_____most English speakers, albeit not as the first language. English is more (4)_____than any single Indian language! It has managed to (5)_____the entire world.

SubQuestion No : 9

Q.9 Select the most appropriate option to fill in blank No.(2)

- Ans
- ☒ 1. the
 - ☒ 2. a
 - ☒ 3. one
 - ☒ 4. an

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.

English is not a language that (1)_____ in India. But it is used extensively in (2)_____country. India comes second on the list of countries (3)_____most English speakers, albeit not as the first language. English is more (4)_____than any single Indian language! It has managed to (5)_____the entire world.

SubQuestion No : 10

Q.10 Select the most appropriate option to fill in blank No.(3)

- Ans
- ☒ 1. among
 - ☒ 2. from
 - ☒ 3. with
 - ☒ 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.

English is not a language that (1)_____ in India. But it is used extensively in (2)_____country. India comes second on the list of countries (3)_____most English

speakers, albeit not as the first language. English is more (4) _____ than any single Indian language! It has managed to (5) _____ the entire world.

SubQuestion No : 11

Q.11 Select the most appropriate option to fill in blank No.(4)

- Ans
- ☒ 1. frequented
 - ☒ 2. extended
 - ☒ 3. comprehensive
 - ☒ 4. prevalent

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.

English is not a language that (1) _____ in India. But it is used extensively in (2) _____ country. India comes second on the list of countries (3) _____ most English speakers, albeit not as the first language. English is more (4) _____ than any single Indian language! It has managed to (5) _____ the entire world.

SubQuestion No : 12

Q.12 Select the most appropriate option to fill in blank No.(5)

- Ans
- ☒ 1. saturate
 - ☒ 2. pervade
 - ☒ 3. invade
 - ☒ 4. persuade

Q.13 Select the most appropriate synonym of the given word.

DEVOUT

- Ans
- ☒ 1. pious
 - ☒ 2. loyal
 - ☒ 3. respectable
 - ☒ 4. revered

Q.14 In the sentence identify the segment which contains the grammatical error.

Raja Ravi Varma was one of the first artist who tried to create a style that was both modern and traditional.

- Ans
- ☒ 1. to create a style that was
 - ☒ 2. both modern and traditional.
 - ☒ 3. Raja Ravi Varma was
 - ☒ 4. one of the first artist

Q.15 Select the most appropriate option to fill in the blank.

I sat _____ my life as nothing seemed to be working for me.

- Ans ☒ 1. cursing
☐ 2. tormenting
☐ 3. blessing
☐ 4. invoking

Q.16 Select the most appropriate synonym of the given word.

RENOWN

- Ans ☐ 1. obscurity
☐ 2. wisdom
☐ 3. conceit
☒ 4. fame

Q.17 Given below are four jumbled sentences. Select the option that gives their correct order.

- A. So, I had thoughts of setting up an Indian restaurant there with my wife's support.
B. It took us two months to redesign the place to suit our needs.
C. One of the things I really missed when I set up home in Maryland, was a restaurant that served authentic Indian food.
D. I decided to pursue this idea seriously and bought an old building in the downtown.

- Ans ☐ 1. CBAD
☐ 2. BCDA
☒ 3. CADB
☐ 4. DACB

Q.18 Select the word which means the same as the group of words given.

One who walks in sleep

- Ans ☐ 1. pedestrian
☐ 2. philanthropist
☐ 3. omnipotent
☒ 4. somnambulist

Q.19 Select the most appropriate option to fill in the blank.

The roads at 15000 feet are not easily navigable and the air is _____ and freezing.

- Ans
- ☒ 1. intensified
 - ☒ 2. rarefied
 - ☒ 3. exalted
 - ☒ 4. elevated

Q.20 In the sentence identify the segment which contains the grammatical error.

Not complying by any of the laws can land you into serious trouble.

- Ans
- ☒ 1. can land you
 - ☒ 2. Not complying by
 - ☒ 3. any of the laws
 - ☒ 4. into serious trouble

Q.21 Select the most appropriate antonym of the given word.

ASCENT

- Ans
- ☒ 1. decent
 - ☒ 2. distant
 - ☒ 3. descent
 - ☒ 4. depression

Q.22 Select the correctly spelt word.

- Ans
- ☒ 1. proportion
 - ☒ 2. proporsion
 - ☒ 3. preportion
 - ☒ 4. propotion

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

- A. Lyrics help in creating a distinctive narrative, some conventions of which have been carried over from the talkies era.
B. Thus, songs have outlived films in people's memories.
C. However, songs seem to have acquired a musical grammar of their own, establishing an emotional chord with the listeners.
D. In popular Indian cinema, lyrics are to music what the heart is to the body.

- Ans ☒ 1. ABCD
☒ 2. DCBA
☒ 3. DACB
☒ 4. ADBC

Q.24 Select the correct active form of the given sentence.

We were given very little time to prepare the presentation.

- Ans ☒ 1. They have given us very little time to prepare the presentation.
☒ 2. They will give us very little time to prepare the presentation.
☒ 3. They give us very little time to prepare the presentation.
☒ 4. They gave us very little time to prepare the presentation.

Q.25 Select the most appropriate meaning of the underlined idiom in the given sentence.

Many people join politics to feather their own nest.

- Ans ☒ 1. utilize black money
☒ 2. make others' life comfortable
☒ 3. promote their own interest
☒ 4. serve their country

CGLE- Combined Graduate Level Tier-I, 2018 Examination

Section : General Intelligence and Reasoning

Q.1 Select the option that is related to the third number in the same way as the second number is related to the first number.

$$9:100::12:?$$

- Ans**
- ☒ 1. 150
 - ☒ 2. 160
 - ☒ 3. 152
 - ☒ 4. 156

Q.2 Which two signs should be interchanged to make the following equation correct?

$$4 \times 5 - 24 + 12 \div 8 = 14$$

- Ans**
- ☒ 1. + and -
 - ☒ 2. \times and +
 - ☒ 3. + and \div
 - ☒ 4. \div and \times

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

$$9 \quad 11 \quad 8$$

$$6 \quad 8 \quad 3$$

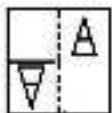
$$45 \quad 57 \quad ?$$

- Ans**
- ☒ 1. 55
 - ☒ 2. 54
 - ☒ 3. 52
 - ☒ 4. 53

Q.4 In a code language, VISION (100) is written as 251576311520. How will DEVELOP be written as in that language?

- Ans
- ☒ 1. 45225111516
 - ☒ 2. 45225121515
 - ☒ 3. 45215121516
 - ☒ 4. 45225121516

Q.5 Select the option that depicts how the given transparent sheet of paper would appear if it is folded at the dashed line.



Ans

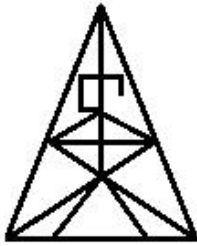
- ☒ 1.
- ☒ 2.
- ☒ 3.
- ☒ 4.

Q.6 Select the figure in which the given figure is embedded.
(Rotation is not allowed).

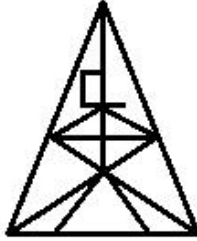


Ans

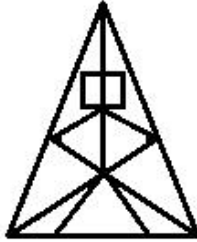
✗ 1.



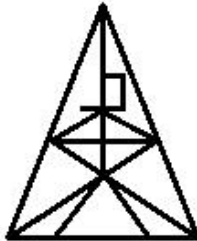
✗ 2.



✗ 3.



✓ 4.



- Q.7 'A + B' means 'A is the sister of B'.
'A - B' means 'A is the brother of B'.
'A × B' means 'A is the mother of B'.
'A ÷ B' means 'A is the father of B'.

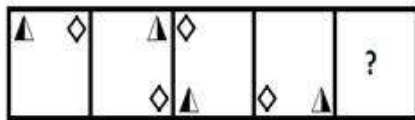
If $V + S \times Q - P \div T + R \times U$, then how is R related to S?

Ans

- ✓ 1. Grand-daughter
✗ 2. Daughter
✗ 3. Grandson
✗ 4. Maternal grandmother

Q.8

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



Ans

- ☒ 1.
- ☒ 2.
- ☒ 3.
- ☒ 4.

Q.9 "Political Science" is related to "Social Science" in the same way as "Chemistry" is related to _____?

- Ans
- ☒ 1. Elements
 - ☒ 2. Science
 - ☒ 3. Humanities
 - ☒ 4. Equations

Q.10 How many triangles are present in the following figure?



- Ans
- ☒ 1. 20
 - ☒ 2. 17
 - ☒ 3. 18
 - ☒ 4. 19

Q.11 Which letter-cluster will replace the question mark (?) in the following series?

FKP, HNT, JQX, LTB, ?

- Ans
- ☐ 1. NWG
 - ☐ 2. NXF
 - ☐ 3. MWF
 - ☒ 4. NWF

Q.12 Three of the following four number-pairs are alike in a certain way and one is different. Pick the number-pair that is different from the rest.

- Ans
- ☐ 1. 5 : 24
 - ☐ 2. 11 : 120
 - ☒ 3. 13 : 170
 - ☐ 4. 7 : 48

Q.13 Four 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:

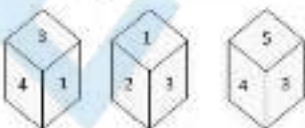
All drums are sticks.
Some drums are boxes.

Conclusions:

- I. Some boxes are sticks.
- II. Some sticks are drums.
- III. All sticks are drums.

- Ans
- ☐ 1. All the conclusions, I, II and III follow
 - ☒ 2. Only conclusions I and II follow
 - ☐ 3. Only conclusions II and III follow
 - ☐ 4. Only conclusions I and III follow.

Q.14 Three different positions of the same dice are shown. Which number will lie on the face opposite to the one having 2?



- Ans
- ☐ 1. 5

✓ 2. 4

✗ 3. 3

✗ 4. 6

Q.15 In a code language, PERMANENT is written as EPMUQRENTN. How will TECHNICAL be written as in that language?

Ans ✓ 1. ETHCOCILA

✗ 2. TEHCOCIAL

✗ 3. ETCHOCILA

✗ 4. ETHCPCILA

Q.16 Which letter will replace the question mark (?) in the following series?

X, R, ?, I, F, D, C

Ans ✗ 1. O

✗ 2. N

✗ 3. Q

✓ 4. M

Q.17 Which number will replace the question mark (?) in the following series?

115, ?, 134, 145, 157, 170

Ans ✗ 1. 125

✗ 2. 122

✗ 3. 127

✓ 4. 124

Q.18 Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair.

Staircase : Clerk Room

Ans ✓ 1. Money : Bank

✗ 2. Chair : Furniture

☒ 3. Salary : Credit

☒ 4. Bag : Luggage

Q.19 Select the missing number from the below options.

11 17 8

16 36 4

15 23 ?

Ans

☒ 1. 11

☒ 2. 12

☒ 3. 10

☒ 4. 14

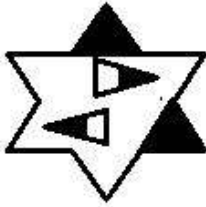
Q.20 Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.



Ans



✗ 4.



Q.21 Arrange the following words in a logical and meaningful order.

1. Writing
2. Book
3. Seller
4. Idea
5. Feedback
6. Reader

Ans ✗ 1. 4, 1, 2, 6, 3, 5

✓ 2. 4, 1, 2, 3, 6, 5

✗ 3. 4, 1, 2, 6, 5, 3

✗ 4. 4, 1, 3, 6, 5, 2

Q.22 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

Ans ✗ 1. PQTXC

✗ 2. GHKOT

✓ 3. JKNRV

✗ 4. UVYCH

Q.23 Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

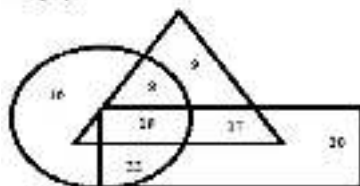
Ans ✓ 1. Deliberate

✗ 2. Examine

✗ 3. Inquire

✗ 4. Explore

Q.24 In the given Venn diagram, the circle represents 'businessmen', the triangle represents 'landlords' and the rectangle represents 'income tax payers'. The numbers given in the diagram represent the number of persons in that particular category.



How many businessmen are tax payers but NOT landlords?

- Ans
- ✓ 1. 22
 - ✗ 2. 8
 - ✗ 3. 19
 - ✗ 4. 17

Q.25 The sum of the current ages of Vishal and Armaan is 70 years. 8 years ago, Vishal was 4 times as old as Armaan. What is Armaan's current age?

- Ans
- ✗ 1. 45 years
 - ✓ 2. 25 years
 - ✗ 3. 20 years
 - ✗ 4. 10 years

Section : Quantitative Aptitude

Q.1 Two articles are sold for ₹1,050 each. On one, the seller gains 18% and on the other he loses 16%. What is his overall gain or loss percent to nearest one decimal place??

- Ans**
- ☒ 1. 1.9% loss
 - ☐ 2. 1.9% gain
 - ☐ 3. 2.1% loss

✗ 4. 2.1% gain

Q.2 If $\tan 4\theta = \cot(40^\circ - 2\theta)$, then θ is equal to:

- Ans
- ✗ 1. 35°
 - ✗ 2. 20°
 - ✗ 3. 30°
 - ✓ 4. 25°

Q.3 If $\cos \theta = \frac{4}{5}$, then $\sin^2 \theta \cos \theta + \cos^2 \theta \sin \theta$ is equal to:

- Ans
- ✓ 1. $\frac{84}{125}$
 - ✗ 2. $\frac{16}{25}$
 - ✗ 3. $\frac{14}{25}$
 - ✗ 4. $\frac{82}{125}$

Q.4 The difference between the compound interest and simple interest on ₹x at 12% per annum for 2 years is ₹45.20. What is the value of x?

- Ans
- ✗ 1. 2,500
 - ✗ 2. 2,800
 - ✓ 3. 3,000
 - ✗ 4. 2,400

Q.5

The following table shows the percentage distribution of students in various disciplines from five different colleges.

Discipline	College				
	A	B	C	D	E
Science	21	15	15	23	16
Commerce	14	48	24	42	21
Arts	17	15	15	15	18
Total Students	1180	820	1020	820	1120

If the data of the total students' college wise, is represented by a pie-chart, what is the central angle of the sector representing college D (to nearest whole number)?

- Ans
- ☒ 1. 78°
 - ☒ 2. 79°
 - ☒ 3. 73°
 - ☒ 4. 75°

Q.6 What is the value of x so that the seven digit number $91876x2$ is divisible by 72?

- Ans
- ☒ 1. 7
 - ☒ 2. 3
 - ☒ 3. 2
 - ☒ 4. 5

Q.7 Chords AB and CD of a circle intersect at a point P inside the circle. If $AP = 10$ cm, $BP = 4$ cm and $PD = 5$ cm, then CD is equal to:

- Ans
- ☒ 1. 9.8 cm
 - ☒ 2. 7.8 cm
 - ☒ 3. 4.8 cm
 - ☒ 4. 6.8 cm

Q.8 A train without stoppage travels with an average speed of 80 km/h and with stoppage, it travels with an average speed of 60 km/h. For how many minutes does the train stop on an average per hour?

- Ans
- ☒ 1. 10
 - ☒ 2. 14
 - ☒ 3. 8
 - ☒ 4. 12

Q.9 If $\sqrt{x} + \frac{1}{\sqrt{x}} = 2\sqrt{2}$, then $x^2 + \frac{1}{x^2}$ is equal to:

- Ans
- ☒ 1. 64
 - ☒ 2. 34
 - ☐ 3. 36
 - ☐ 4. 32

Q.10 In a circle with centre O, AB is a diameter and C is a point such that $\angle ABC$ is a right angle. If $\angle BAC = 34^\circ$, then $\angle C$ is equal to:

- Ans
- ☐ 1. 32°
 - ☐ 2. 28°
 - ☒ 3. 34°
 - ☐ 4. 62°

Q.11 In $\triangle ABC$, P is a point on BC such that $BP : PC = 3 : 2$ and Q is the midpoint of AB. Then $\frac{AP}{BC}$ is equal to:

- Ans
- ☐ 1. $2 : 3$
 - ☒ 2. $1 : 5$
 - ☐ 3. $2 : 5$
 - ☐ 4. $1 : 4$

Q.12 The radii of the two circular faces of the frustum of a cone of height 21 cm are 5 cm and 8 cm. What is its volume in

$$\text{cm}^3 \left(\pi = \frac{22}{7} \right)$$

- Ans
- ☒ 1. 1078
 - ☐ 2. 1025
 - ☐ 3. 1058
 - ☐ 4. 1020

Q.13 An article is sold for ₹547.40 after successive discounts of 30% and 10%. What is the marked price of the article?

- Ans
- ☐ 1. ₹960
 - ☐ 2. ₹940
 - ☒ 3. ₹920
 - ☐ 4. ₹900

Q.14 The value of:

$$3.8 + (8.2 \div 4.1 \times 2) - 4 \times 3 \div 1.2$$

- Ans
- ☒ 1. -1.2
 - ☒ 2. 2.2
 - ☒ 3. 1.2
 - ☒ 4. -2.2

Q.15 The following table shows the percentage distribution of students in various disciplines from five different colleges.

Discipline	Colleges				
	A	B	C	D	E
Science	25	33	41	28	31
Commerce	27	28	32	42	33
Mathematics	40	33	31	29	30
Total Students	1200	800	1500	900	1100

The number of students from the discipline of Economics from college B is approximately what percentage of the number of students from the discipline of Science from the college D?

- Ans
- ☒ 1. 59
 - ☒ 2. 61
 - ☒ 3. 56
 - ☒ 4. 58

Q.16 In a class of 80 students, 40% are girls. The average weight of the boys is 60kg and that of the girls is 45kg. What is the average weight of the whole class?

- Ans
- ☒ 1. 58.8kg
 - ☒ 2. 59kg
 - ☒ 3. 58.6kg
 - ☒ 4. 59.2kg

Q.17 $\triangle ABC \sim \triangle PQR$ and $PQ = 10$ cm, $QR = 12$ cm and $RP = 16$ cm. If $\text{ar}(\triangle PQR) = \text{ar}(\triangle ABC) = \frac{1}{4}$, then BC is equal to:

- Ans
- ☒ 1. $\frac{32}{3}$ cm
 - ☒ 2. $\frac{20}{3}$ cm
 - ☒ 3. 8 cm

☒ 4. 6 cm

Q.18 A is 50% more efficient than B and C is 40% less efficient than B. Working together, they can complete a work in 20 days. In how many days will C alone complete 30% of that task?

Ans ☒ 1. 29

☒ 2. 31

☒ 3. 33

☒ 4. 35

Q.19 If $a + b + c = 6$ and $ab + bc + ca = 5$, then $a^3 + b^3 + c^3 - 3abc$ is equal to:

Ans ☒ 1. 126

☒ 2. 98

☒ 3. 108

☒ 4. 116

Q.20 If $(a + b) = 6$ and $ab = 8$, then $(a^3 + b^3)$ is equal to:

Ans ☒ 1. 216

☒ 2. 72

☒ 3. 144

☒ 4. 108

Q.21 The value of $\frac{\sin 44^\circ}{\cos 46^\circ} + \sin^2 60^\circ - \cos^2 45^\circ + \sec 60^\circ$ is equal to:

Ans ☒ 1. $\frac{11}{4}$

☒ 2. $\frac{11}{3}$

☒ 3. $\frac{7}{4}$

✓ 4. $\frac{13}{4}$

Q.22 The following table shows the percentage distribution of students in various disciplines from five different colleges.

Discipline	College				
	A	B	C	D	E
Science	28	32	48	28	30
Commerce	22	40	20	42	25
Arts	40	28	32	30	45
Mathematics	10.00	0.00	1.00	5.00	1.00

What is the percentage of students from the discipline of Mathematics for colleges A and C taken together, (nearest to one decimal place)?

- Ans
- ✗ 1. 36.9
 - ✗ 2. 37.2
 - ✗ 3. 37.5
 - ✓ 4. 36.7

Q.23 If $a : b = 2 : 3$, then $(5a - 2b) : (5a + 2b)$ is equal to:

- Ans
- ✓ 1. $1 : 4$
 - ✗ 2. $3 : 7$
 - ✗ 3. $1 : 3$
 - ✗ 4. $2 : 7$

Q.24 The price of sugar is increased by 17%. A person wants to increase his expenditure by 7% only. By what percentage, (nearest to one decimal place, should he reduce his consumption?

- Ans
- ✓ 1. 8.5%
 - ✗ 2. 8.3%
 - ✗ 3. 8.7%
 - ✗ 4. 8.1%

Q.25 The following table shows the percentage distribution of students in various disciplines from five different colleges.

Discipline	College				
	A	B	C	D	E
Science	28	32	48	28	30
Commerce	22	40	20	42	25
Arts	40	28	32	30	45
Mathematics	10.00	0.00	1.00	5.00	1.00

What is the average number of students from the science discipline of all the colleges taken together?

Ans

✗ 1. 3748

✗ 2. 3762

✓ 3. 3724

✗ 4. 3642

Section : **General Awareness**

Q.1 Who among the following became the fastest Asian to cycle around the globe in 2018?

- Ans**
- ☒ 1. Deena Prince
 - ☒ 2. Disha Srivastava
 - ☒ 3. Vedangi Kulkarni
 - ☒ 4. Swati Sani

Q.2 The term _____ is prefixed to scientific terms to describe something that is constant.

- Ans**
- ☒ 1. Mega
 - ☒ 2. Quasi
 - ☒ 3. Photo
 - ☒ 4. Iso

Q.3 When the fiscal deficit is high, what happens to prices?

- Ans
- ☒ 1. Prices increase
 - ☒ 2. There is no direct impact on prices
 - ☒ 3. Prices remain stable
 - ☒ 4. Prices decrease

Q.4 The traditional art of 'Jamdani' weaving originated in _____.

- Ans
- ☒ 1. Myanmar (Burma)
 - ☒ 2. Nepal
 - ☒ 3. China
 - ☒ 4. Bangladesh

Q.5 Dolly, the first cloned living being created at Roslin Institute in Scotland was a _____.

- Ans
- ☒ 1. dog
 - ☒ 2. cat
 - ☒ 3. sheep
 - ☒ 4. cow

Q.6 What is the value of all tangible resources such as raw materials and labour that are used in the production process called?

- Ans
- ☒ 1. Opportunity Cost
 - ☒ 2. Variable Cost
 - ☒ 3. Real Cost
 - ☒ 4. Fixed Cost

Q.7 The term 'Blood Moon' is used to refer to _____.

- Ans
- ☒ 1. Full Moon
 - ☒ 2. Lunar Eclipse
 - ☒ 3. Solar Eclipse
 - ☒ 4. Crescent Moon

Q.8 What is the chemical name of the deadly poison 'cyanide'?

- Ans
- ☐ 1. Sulfuric acid
 - ☐ 2. Nitric acid
 - ☐ 3. Hydrochloric acid
 - ☒ 4. Prussic acid

Q.9 Which of the followings is the national bird of China?

- Ans
- ☐ 1. Barn Owl
 - ☐ 2. Parrot
 - ☒ 3. Red-crowned Crane
 - ☐ 4. Robin

Q.10 Mitra Mela was a revolutionary organisation founded by Veer Savarkar in the year _____.

- Ans
- ☐ 1. 1864
 - ☒ 2. 1900
 - ☐ 3. 1856
 - ☐ 4. 1873

Q.11 Who is the author of the book 'Freedom from Fear: And Other Writings'?

- Ans
- ☒ 1. Aung San Suu Kyi
 - ☐ 2. Barak Obama
 - ☐ 3. Nelson Mandela
 - ☐ 4. A P J Abdul Kalam

Q.12 Who is the first Indian national to win the 'Sri Lanka Rathna' award?

- Ans
- ☐ 1. Vinod Mehta
 - ☐ 2. Dileep Padgaonkar
 - ☒ 3. Narasimhan Ram
 - ☐ 4. Khushwant Singh

Q.13 The river Ganga emerges from Gangotri Glacier and ends at _____.

- Ans
- ☐ 1. Arabian Sea
 - ☐ 2. Pacific Ocean
 - ☐ 3. Indian Ocean
 - ☒ 4. Bay of Bengal

Q.14 In which year was the University Grants Commission (UGC) formally established?

- Ans
- ☐ 1. 1950
 - ☐ 2. 1947
 - ☒ 3. 1956
 - ☐ 4. 1964

Q.15 How many International airports are there in India?

- Ans
- ☐ 1. 14
 - ☐ 2. 16
 - ☒ 3. 17
 - ☐ 4. 15

Q.16 Who presides over the joint sitting of the Lok Sabha and the Rajya Sabha?

- Ans
- ☒ 1. Speaker of Lok Sabha
 - ☐ 2. Deputy Speaker of Lok Sabha
 - ☐ 3. Prime Minister
 - ☐ 4. Vice President

Q.17 Who among the following was given the title 'Quaid-i-Azam'?

- Ans
- ☐ 1. Sardar Vallabhbhai Patel
 - ☒ 2. Muhammad Ali Jinnah
 - ☐ 3. Mahatma Gandhi

 4. Jawaharlal Nehru

Q.18 In which year did the Indian Premier League (IPL) start?

- Ans  1. 2002
 2. 2008
 3. 2010
 4. 2004

Q.19 When was Indian Super League started?

- Ans  1. 2015
 2. 2014
 3. 2012
 4. 2013

Q.20 UN's Economic and Social Council (ECOSOC) elected _____ to the 18-member committee 'CESCR' for the Asia Pacific seat in 2018.

- Ans  1. Chandrashekhar Dasgupta
 2. Preeti Saran
 3. Arundhati Ghosh
 4. Shashi Tharoor

Q.21 Burma became independent sovereign republic in the year _____.

- Ans  1. 1948
 2. 1946
 3. 1962
 4. 1950

Q.22 Which country in the world has the largest number of international borders?

- Ans  1. India

✓ 2. China

✗ 3. Pakistan

✗ 4. Nepal

Q.23 Which instrument is used to measure blood pressure?

Ans ✗ 1. Glucometer

✓ 2. Sphygmomanometer

✗ 3. Lactometer

✗ 4. Thermometer

Q.24 Catriona Gray of _____ was crowned Miss Universe in 2018.

Ans ✗ 1. Spain

✗ 2. Brazil

✓ 3. Philippines

✗ 4. Venezuela

Q.25 Under which article of the Constitution of India can members of the Anglo Indian community be nominated to the Lok Sabha by the President?

Ans ✗ 1. 342

✓ 2. 331

✗ 3. 326

✗ 4. 330

Section : English Comprehension

Q.1 Given below are four jumbled sentences. Select the option that gives their correct order.

- A. If the mixture becomes too thick add more milk.
- B. Finally, add sugar and nuts, and your kheer is ready.
- C. Boil milk in a heavy-bottomed pan and add rice.
- D Cook for about twenty minutes stirring every once in a while till the mixture thickens.

Ans

- ☒ 1. BADC
- ☒ 2. DACB
- ☒ 3. CDAB
- ☒ 4. ADCB

Q.2 Select the most appropriate meaning of the underlined idiom in the given sentence.

Throughout his speech the crowd was all ears.

- Ans
- ☒ 1. talking loudly
 - ☒ 2. covering their ears
 - ☒ 3. making a lot of noise
 - ☒ 4. very attentive

Q.3 Choose the option that is the active form of the sentence.

It was decided by the members that the report would be placed before the Chairman for his comments.

- Ans
- ☒ 1. The members decided to place the report before the Chairman for his comments.
 - ☒ 2. Did the members decide to place the report before the Chairman?
 - ☒ 3. The Chairman decided to place the report before the members.
 - ☒ 4. The Chairman's comments were to be placed on the report of the members.

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

INTRICATE

- Ans
- ☒ 1. complex
 - ☒ 2. colorful
 - ☒ 3. connected
 - ☒ 4. complete

Q.5 Given below are four jumbled sentences. Select the option that gives their correct order.

- A. This network of stories is known in academic circles as 'fiction' or 'imagined realities'.
- B. However, an imagined reality is not a lie.
- C. Over the years, people have woven an incredibly complex network of stories.
- D. Within this network fiction not only exists but also accumulates immense power.

- Ans
- ☒ 1. ADBC
 - ☒ 2. DBAC
 - ☒ 3. CADB
 - ☒ 4. DBCA

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

ACQUIT

- Ans
- ☒ 1. convict
 - ☒ 2. forgive
 - ☒ 3. evict
 - ☒ 4. clear

Q.7 Select the alternative that will improve the underlined part of the sentence in case there is no improvement select "No improvement".

The flowers smell so sweetly that I want to pluck them.

- Ans
- ☒ 1. smelling so sweetly
 - ☒ 2. No improvement
 - ☒ 3. smell so sweet
 - ☒ 4. will smell so sweet

Q.8 Select the correctly spelt word.

- Ans
- ☒ 1. meazure
 - ☒ 2. robbery
 - ☒ 3. leisure
 - ☒ 4. restaurent

Q.9 Identify the segment in the sentence, which contains the grammatical error.

"Unless you did not do your homework you will be punished," said the teacher.

- Ans
- ☒ 1. do your homework
 - ☒ 2. Unless you did not
 - ☒ 3. said the teacher.

☒ 4. you will be punished

Q.10 Select the word which means the same as the group of words given.

Incapable of being corrected

- Ans ☒ 1. incorrigible
☒ 2. incredible
☒ 3. inviolable
☒ 4. impossible

Q.11 Select the most appropriate antonym of the given word.

ABSURD

- Ans ☒ 1. sensitive
☒ 2. selfish
☒ 3. sentimental
☒ 4. sensible

Q.12 Select the alternative that will improve the underlined part of the sentence in case there is no improvement select "No improvement"

I am very much pleased to see you here today.

- Ans ☒ 1. very pleased
☒ 2. No improvement
☒ 3. very pleasing
☒ 4. too much pleased

Q.13 Select the correctly spelt word.

- Ans ☒ 1. quiete
☒ 2. queit
☒ 3. quiet
☒ 4. qiete

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.

Although a wild elephant, Chinna Thambi did not grow up entirely in the wild. For over the last (1) _____ he has had easy (2) _____ to food at Thadagam, a village surrounded by the Western Ghats near Coimbatore. Brick (3) _____ tempted him with (4) _____ of water and he loved the palm pith that was used as (5) _____ for baking bricks.

SubQuestion No : 14

Q.14 Select the most appropriate option to fill in blank No.(1)

- Ans
- ☒ 1. summer
 - ☒ 2. annual
 - ☒ 3. decade
 - ☒ 4. festival

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.

Although a wild elephant, Chinna Thambi did not grow up entirely in the wild. For over the last (1) _____ he has had easy (2) _____ to food at Thadagam, a village surrounded by the Western Ghats near Coimbatore. Brick (3) _____ tempted him with (4) _____ of water and he loved the palm pith that was used as (5) _____ for baking bricks.

SubQuestion No : 15

Q.15 Select the most appropriate option to fill in blank No.(2)

- Ans
- ☒ 1. entry
 - ☒ 2. approach
 - ☒ 3. access
 - ☒ 4. way

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.

Although a wild elephant, Chinna Thambi did not grow up entirely in the wild. For over the last (1) _____ he has had easy (2) _____ to food at Thadagam, a village surrounded by the Western Ghats near Coimbatore. Brick (3) _____ tempted him with (4) _____ of water and he loved the palm pith that was used as (5) _____ for baking bricks.

SubQuestion No : 16

Q.16 Select the most appropriate option to fill in blank No.(3)

- Ans
- ☒ 1. tub
 - ☒ 2. kilns
 - ☒ 3. store
 - ☒ 4. jar

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.

Although a wild elephant, Chinna Thambi did not grow up entirely in the wild. For over the last (1) _____ he has had easy (2) _____ to food at Thadagam, a village surrounded by the Western Ghats near Coimbatore. Brick (3) _____ tempted him with (4) _____ of water and he loved the palm pith that was used as (5) _____ for baking bricks.

SubQuestion No : 17

Q.17 Select the most appropriate option to fill in blank No.(4)

- Ans
- ☒ 1. many
 - ☒ 2. much
 - ☒ 3. plenty
 - ☒ 4. load

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.

Although a wild elephant, Chinna Thambi did not grow up entirely in the wild. For over the last (1) _____ he has had easy (2) _____ to food at Thadagam, a village surrounded by the Western Ghats near Coimbatore. Brick (3) _____ tempted him with (4) _____ of water and he loved the palm pith that was used as (5) _____ for baking bricks.

SubQuestion No : 18

Q.18 Select the most appropriate option to fill in blank No.(5)

- Ans
- ☒ 1. matter
 - ☒ 2. logs
 - ☒ 3. fuel
 - ☒ 4. fodder

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

Since he secured the first rank Sudhir has become swollen-headed.

- Ans
- ☒ 1. conceited
 - ☒ 2. unwell
 - ☒ 3. famous
 - ☒ 4. well-connected

Q.20 Select the most appropriate option to fill in the blank.

When you want to expand your vocabulary the best thing to do is to relate a known word with an _____ one and guess the meaning from the context.

- Ans
- ☒ 1. essential
 - ☒ 2. unclear
 - ☒ 3. unfamiliar
 - ☒ 4. unnecessary

Q.21 Identify the segment in the sentence, which contains the grammatical error.

The reduction in the cost of education due to an increase in subsidies offer by the government is also seen as a reason to get more educated.

- Ans
- ☒ 1. The reduction in the cost of education
 - ☒ 2. offer by the government
 - ☒ 3. is also seen as a reason
 - ☒ 4. due to an increase in subsidies

Q.22 Choose the option that is the passive form of the sentence.

A campus fire in California caused the death of at least twenty-three persons.

- Ans
- ☒ 1. At least twenty-three person's death was caused in a campus fire in California.
 - ☒ 2. The death of at least twenty three persons caused a campus fire in California.
 - ☒ 3. The death of at least twenty three persons will be caused in a campus fire in California.
 - ☒ 4. The death of at least twenty three persons was caused by a campus fire in California.

Q.23 Select the word which means the same as the group of words given.

That which cannot be heard

- Ans
- ☒ 1. hidden
 - ☒ 2. invisible
 - ☒ 3. inaudible
 - ☒ 4. slight

Q.24 Select the most appropriate synonym of the given word.

ASSIST

- Ans
- ☒ 1. create
 - ☒ 2. mend
 - ☒ 3. help
 - ☒ 4. change

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

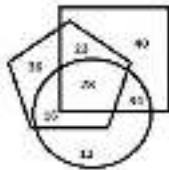
In order to _____ to a new place you may need to adjust to the ways of that culture.

- Ans
- ☒ 1. adhere
 - ☒ 2. avoid
 - ☒ 3. adapt
 - ☒ 4. adopt

CGLE- Combined Graduate Level Tier-I, 2018 Examination

Section : General Intelligence and Reasoning

Q.1 In the given Venn diagram, the pentagon represents 'Cricketers', the square represents 'Chess players' and the circle represents 'Clerks'. The numbers given in the diagram represent the number of persons in that particular category.



How many cricketers are chess players but NOT clerks?

- Ans
- ✓ 1. 22
 - ✗ 2. 34
 - ✗ 3. 40
 - ✗ 4. 36

Q.2 Which letter-cluster will replace the question mark (?) in the following series?

PRI, TVX, ?, BDE, HIJ

- Ans
- ✗ 1. YZB
 - ✓ 2. XZB
 - ✗ 3. XAB
 - ✗ 4. XZC

Q.3 'Valuable' is related to 'Precious' in the same way as 'Dry' is related to '_____'.

- Ans
- ✗ 1. Farm
 - ✓ 2. Arid
 - ✗ 3. Wet
 - ✗ 4. Rough

Q.4 Three of the following four letter clusters are alike in a certain way and one is different. Pick the odd one out.

- Ans
- ☒ 1. BDGKP
 - ☒ 2. SUXBG
 - ☒ 3. OQTXC
 - ☒ 4. JLKRW

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



Ans

- ☒ 1.
- ☒ 2.
- ☒ 3.
- ☒ 4.

Q.6 Which letter will replace the question mark (?) in the following series?

P, U, R, W, T, ?, V, A, X

- Ans
- ☒ 1. Z
 - ☒ 2. W
 - ☒ 3. Y
 - ☒ 4. X

Q.7 Three of the following four numberpairs are alike in a certain way and one is different. Pick the numberpair that is different from the rest.

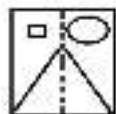
- Ans
- ☒ 1. 7 : 51
 - ☒ 2. 8 : 66
 - ☒ 3. 13 : 171
 - ☒ 4. 10 : 98

Q.8 Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair.

Dermatology : skin

- Ans
- ☒ 1. Cardiology : Angiography
 - ☒ 2. Orthopaedics : Bones
 - ☒ 3. Paediatrics : Lungs
 - ☒ 4. Medicine : Treatment

Q.9 Select the option that depicts how the given transparent sheet of paper would appear if it is folded along the dotted line.



Ans

- ☒ 1.
- ☒ 2.
- ☒ 3.
- ☒ 4.

Q.10 Select the missing number from the given options.

8 27 ?

7 2 3

9 5 7

- Ans
- ☒ 1. 16
 - ☒ 2. 25
 - ☒ 3. 36
 - ☒ 4. 64

Q.11 The sum of the current ages of Asma and her grandfather is 80 years. 10 years from now, Asma's age will be one-eighth of her grandfather's age. What is Asma's current age?

- Ans
- ☒ 1. 10 years
 - ☒ 2. 20 years
 - ☒ 3. 16 years
 - ☒ 4. 12 years

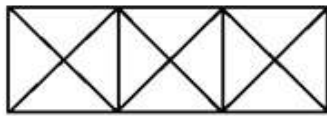
Q.12 Which two signs should be interchanged to make the following equation correct?

$24 + 12 - 6 \times 6 + 2 = 18$

- Ans
- ☒ 1. \times and $+$
 - ☒ 2. $+$ and $-$
 - ☒ 3. $+$ and \div
 - ☒ 4. \div and \times

Q.13

How many triangles are there in the following figure?



Ans ☒ 1. 28

☒ 2. 24

☒ 3. 30

☒ 4. 26

Q.14 Arrange the following words in a logical and meaningful order.

1. Hunger
2. Cry
3. Feeding
4. Child
5. Sleep
6. Mother

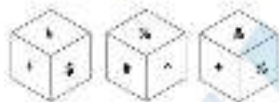
Ans ☒ 1. 4, 1, 2, 6, 3, 5

☒ 2. 4, 1, 2, 3, 5, 6

☒ 3. 4, 1, 3, 6, 5, 2

☒ 4. 4, 5, 2, 6, 3, 1

Q.15 Three different positions of the same dice are shown. Which symbol will be on the face opposite to the one having '+'?



Ans ☒ 1. ^

☒ 2. #

☒ 3. +

☒ 4. S

Q.16

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



Ans

✗ 1.



✓ 2.



✗ 3.



✗ 4.



Q.17 Select the figure in which the given figure is embedded.
(rotation is not allowed).

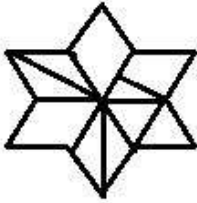


Ans

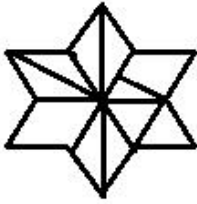
✗ 1.



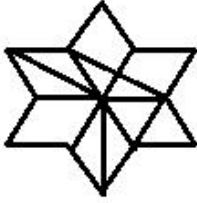
✗ 2.



✗ 3.



✓ 4.



- Q.18 'A + B' means 'A is the brother of B'.
'A - B' means 'A is the wife of B'.
'A × B' means 'A is the daughter of B'.
'A ÷ B' means 'A is the father of B'.

If $P + S \times Q \times R - T \div V \div U$, then how is T related to P?

- Ans
- ✗ 1. Paternal grandmother
 - ✗ 2. Maternal grandmother
 - ✓ 3. Maternal grandfather
 - ✗ 4. Paternal grandfather

- Q.19 Which number will replace the question mark (?) in the following series?

118, 129, 141, 154, 168, ?

- Ans
- ✓ 1. 183
 - ✗ 2. 182
 - ✗ 3. 181
 - ✗ 4. 184

Q.20 Select the option that is related to the third number in the same way as the second number is related to the first number.

1:344::11:?

- Ans**
- ☒ 1. 122
 - ☒ 2. 1332
 - ☒ 3. 1331
 - ☒ 4. 121

Q.21 In a code language, ARDQUS is written as 1184152119. How will SYSLM be written as in that language?

- Ans**
- ☒ 1. 19251921513
 - ☒ 2. 18251820513
 - ☒ 3. 19251920513
 - ☒ 4. 19251920514

Q.22 Four 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 postcards are envelopes.
No envelope is a paper.

Conclusions:

- I. Some envelopes are postcards.
- II. No paper is an envelope.
- III. No postcard is a paper.

- Ans**
- ☒ 1. Only conclusions I and III follow.
 - ☒ 2. All the conclusions, I, II and III, follow
 - ☒ 3. Only conclusions I and II follow
 - ☒ 4. Only conclusions II and III follow

Q.23 Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

- Ans**
- ☒ 1. Nose
 - ☒ 2. Ears
 - ☒ 3. Eyes
 - ☒ 4. Throat

Q.24 In a code language, INFORMATIVE is written as ROUNDEVITA. How will SUPERFICIAL be written as in that language?

- Ans
- ☒ 1. LAICIGREPUS
 - ☒ 2. REPUSGLAICI
 - ☒ 3. REPUSELAICI
 - ☒ 4. USEPRFICAIL

Q.25 Select the missing number from the given options.

64 49 ?

12 17 4

20 24 8

- Ans
- ☒ 1. 25
 - ☒ 2. 12
 - ☒ 3. 36
 - ☒ 4. 16

Section : Quantitative Aptitude

Q.1 In a class of 60 students, 40% are girls. The average weight of the whole class is 59.2 kg and the average weight of the girls is 55 kg. What is the average weight of the boys?

Ans

☒ 1. 61 kg

☒ 2. 63 kg

☒ 3. 60 kg

☒ 4. 62 kg

Q.2 The difference between compound interest and simple interest on ₹ x at 8% per annum for 2 years is ₹48. What is the value of x ?

- Ans
- ☒ 1. 8000
 - ☒ 2. 7400
 - ☒ 3. 7500
 - ☒ 4. 7800

Q.3 If $3\sin\theta = 4\cos\theta$, then $\tan^2\theta + \sin\theta - \cos\theta$ is equal to:

- Ans
- ☒ 1. $\frac{89}{45}$
 - ☒ 2. $\frac{17}{9}$
 - ☒ 3. 2
 - ☒ 4. $\frac{88}{45}$

Q.4 In a circle with centre O, an arc AB subtends an angle of 132° at the centre of the circle. Chord AB is produced to point P. Then $\angle CBP$ is equal to:

- Ans
- ☒ 1. 48°
 - ☒ 2. 76°
 - ☒ 3. 66°
 - ☒ 4. 68°

Q.5 Table shows the production of rice (in million tonnes) of three states over six years.

States	Years					
	2011	2012	2013	2014	2015	2016
A	5.2	5.4	5.8	6.2	6.5	6.9
B	3.8	4.1	4.4	4.8	5.2	5.7
C	4.5	5.2	5.9	6.1	6.7	7.4

If the total production in three states in all six years is represented by a pie chart, what is the central angle of the sector representing production in the year 2014, (to nearest whole number)?

- Ans
- ☒ 1. 61°
 - ☒ 2. 63°
 - ☒ 3. 65°

☒ 4. 59°

Q.6 If $a : b = 2 : 3$, then $(5a + 3b) : (6a - 2b)$ is equal to:

- Ans ☒ 1. $3 : 2$
☒ 2. $10 : 7$
☒ 3. $19 : 6$
☒ 4. $17 : 5$

Q.7 If $a + b + c = 6$ and $a^2 + b^2 + c^2 - 3abc = 126$ then $ab + bc + ca$ is equal to:

- Ans ☒ 1. 8
☒ 2. 5
☒ 3. 6
☒ 4. 12

Q.8 The efficiencies of A, B and C are in the ratio of $2 : 3 : 5$. Working together, they can complete a task in 6 days. In how many days will A alone complete 70% of that task?

- Ans ☒ 1. 4
☒ 2. 8
☒ 3. 5
☒ 4. 6

Q.9 The radii of two circular bases of the frustrum of a cone of height 10.4 cm are 5 cm and 8 cm respectively. What is the volume in cm^3 of $\pi = \frac{22}{7}$ is

- Ans ☒ 1. 564
☒ 2. 545
☒ 3. 552
☒ 4. 539

Chosen Option : 3

Q.10

An article is sold for ₹612 after successive discounts of 25% and 15%. What is the marked price of the article?

- Ans
- ☒ 1. ₹960
 - ☐ 2. ₹940
 - ☐ 3. ₹980
 - ☐ 4. ₹1000

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

- Ans
- ☐ 1. 104
 - ☒ 2. 98
 - ☐ 3. 102
 - ☐ 4. 100

Q.12 Two articles are sold for ₹4800; on one, the seller gained 22% and on the other he lost 20%. What is his overall gain or loss percentage, nearest to one decimal place?

- Ans
- ☐ 1. 3.6% gain
 - ☒ 2. 3.4% loss
 - ☐ 3. 3.6% loss
 - ☐ 4. 3.4% gain

Q.13 If $\operatorname{cosec} 3\theta = \sec(20^\circ + 2\theta)$, then θ is equal to:

- Ans
- ☐ 1. 15°
 - ☐ 2. 20°
 - ☐ 3. 30°
 - ☒ 4. 14°

Q.14 Table shows the production of rice (in million tonnes) of three states over six years.

States	Years					
	2011	2012	2013	2014	2015	2016
A	5.2	5.4	5.8	6.2	6.5	6.9
B	3.8	4.1	4.4	4.8	5.2	5.7
C	4.5	5.2	5.8	6.4	6.7	7.4

What is the ratio of the production of rice in all three states in the year 2014 to that in 2016?

- Ans ☒ 1. 87 : 100
☒ 2. 85 : 102
☒ 3. 89 : 100
☒ 4. 85 : 103

Q.15 Walking at $\frac{3}{4}$ of his usual speed, a person reaches his office 18 minutes late than the usual time. His usual time in minutes is:

- Ans ☒ 1. 54
☒ 2. 60
☒ 3. 72
☒ 4. 45

Q.16 The value of $\sin^2 20^\circ + \sin^2 70^\circ - \tan^2 45^\circ + \sec 60^\circ$ is equal to:

- Ans ☒ 1. 2.5
☒ 2. 2
☒ 3. 1
☒ 4. 3

Q.17 If $a + b = 5$ and $ab = 3$, then $(a^3 + b^3)$ is equal to:

- Ans ☒ 1. 80
☒ 2. 75
☒ 3. 70
☒ 4. 65

Q.18 The price of sugar is increased by 10%. A person wants to increase his expenditure by 12% only. By what percentage, correct to one decimal place, should he reduce his consumption?

- Ans ☒ 1. 7.1
☒ 2. 6.9
☒ 3. 7.5
☒ 4. 7.3

Q.19 In a circle of radius 13cm, a chord is at a distance of 5cm from its centre. What is the length of the chord?

- Ans
- ☒ 1. 12cm
 - ☒ 2. 24cm
 - ☒ 3. 18cm
 - ☒ 4. 20cm

Q.20 What is the value of x so that the seven digit number 6913 x 08 is divisible by 88?

- Ans
- ☒ 1. 4
 - ☒ 2. 8
 - ☒ 3. 6
 - ☒ 4. 2

Q.21 The value of:

$$7.5 + (5.4 \div 4.5 \times 2) - 8 \times 4 \div 3.2$$

- Ans
- ☒ 1. 0.2
 - ☒ 2. -0.2
 - ☒ 3. 0.1
 - ☒ 4. -0.1

Q.22 Table shows the production of rice (in million tonnes) of three states over six years.

States	Years					
	2011	2012	2013	2014	2015	2016
A	5.2	5.4	5.8	6.2	6.5	6.9
B	3.8	4.1	4.4	4.8	5.2	5.7
C	4.5	5.2	5.8	6.4	6.7	7.4

What is the average production of rice in state A over the years (in million tonnes)?

- Ans
- ☒ 1. 5.8
 - ☒ 2. 5.9
 - ☒ 3. 6
 - ☒ 4. 6.1

Q.23 Table shows the production of rice (in million tonnes) of three states over six years.

States	Years					
	2011	2012	2013	2014	2015	2016
A	5.2	5.4	5.8	6.2	6.5	6.9
B	3.8	4.1	4.4	4.8	5.2	5.7
C	4.5	5.2	5.8	6.4	6.7	7.4

What is the percentage increase in the production of rice in B from 2014 to 2016?

- Ans
- ☒ 1. 17.75
 - ☒ 2. 17.25
 - ☒ 3. 18.75
 - ☒ 4. 18.25

Q.24 $\triangle ABC \sim \triangle PQR$ and $PQ=10$ cm, $QR=12$ cm and $BC=18$ cm. If $\sin(\angle ACB) = \frac{4}{5}$ or $(\angle PQR) = \frac{\pi}{6}$, then AB is equal to:

- Ans
- ☒ 1. 8cm
 - ☒ 2. 12cm
 - ☒ 3. 9cm
 - ☒ 4. $\frac{20}{3}$ cm

Q.25 In $\triangle ABC$, P is a point on BC such that $BP : PC = 3 : 4$ and Q is the midpoint of BP . Then $\sin(\angle BQP) : \sin(\angle APC)$ is equal to:

- Ans
- ☒ 1. 3 : 8
 - ☒ 2. 2 : 7
 - ☒ 3. 1 : 4
 - ☒ 4. 3 : 14