

Section : **General Awareness**

Q.1 Name the Indian Space Research Organisation (ISRO) chairman and Padma Bhushan awardee who created and unleashed a historical moment when Mars Orbiter became the first Indian spacecraft to enter Martian orbit in a maiden attempt.

- Ans**
- ☒ 1. Nandan Nilekani
 - ☒ 2. K Radhakrishnan
 - ☒ 3. Sundar Pichai
 - ☒ 4. Fali Nariman

Q.2 Which of the following metals is the most ductile metal?

- Ans**
- ☒ 1. Tin
 - ☒ 2. Gold
 - ☒ 3. Aluminium
 - ☒ 4. Copper

Q.3 Who was awarded the Rabindranath Tagore Literary Prize 2019 for the Novel 'Solo'?

- Ans
- ☐ 1. Nayanjot Mukherjee
 - ☐ 2. Amitabh Ghosh
 - ☒ 3. Rana Dasgupta
 - ☐ 4. Jhumpa Lahiri

Q.4 The Badami Chalukyas first had their capital at ____ before they moved it to Badami.

- Ans
- ☒ 1. Aihole
 - ☐ 2. Hubli
 - ☐ 3. Bijapur
 - ☐ 4. Pattadakal

Q.5 Who founded and named the science of electromagnetism?

- Ans
- ☐ 1. Michael Faraday
 - ☐ 2. James Clerk
 - ☐ 3. Hans Christian Oersted
 - ☒ 4. Andre Marie Ampère

Q.6 Which of the following ministries implemented the Midday Meal scheme?

- Ans
- ☐ 1. Ministry of Social Justice and Empowerment
 - ☐ 2. Ministry of Social Welfare
 - ☒ 3. Ministry of Human Resource Development
 - ☐ 4. Ministry of Home Affairs

Q.7 In February 2019, India won ____ gold medal/s and five silver medals at the Makran Cup Boxing in Chabahar, Iran.

- Ans
- ☐ 1. three
 - ☐ 2. four
 - ☒ 3. one
 - ☐ 4. two

Q.8 _____ was the first Muslim ruler whose empire covered almost the whole of India up to its extreme south.

- Ans
- ☐ 1. Jalal-ud-din Khilji
 - ☐ 2. Ghiyas ud din Balban
 - ☒ 3. Alauddin Khilji
 - ☐ 4. Feroz Shah Tughlaq

Q.9 What is deposited on iron in the process of galvanisation?

- Ans
- ☐ 1. Tin
 - ☒ 2. Zinc
 - ☐ 3. Copper
 - ☐ 4. Aluminium

Q.10 Who among the following was a slave of Muhammad Ghori? He became the ruler after the death of his master and founded the Slave Dynasty.

- Ans
- ☒ 1. Qutub-ud-din Aibak
 - ☐ 2. Iltutmish
 - ☐ 3. Ghiyas ud din Balban
 - ☐ 4. Nasir-ud-din Mahmud

Q.11 In February 2019, _____ won a gold medal at the Makran Cup in Chabahar, Iran.

- Ans
- ☒ 1. Deepak Singh
 - ☐ 2. Satish Kumar
 - ☐ 3. Rohit Tokas
 - ☐ 4. Manish Kaushik

Q.12 Which of the following does NOT come under the Quarternary sector?

- Ans
- ☐ 1. Manufacturing
 - ☐ 2. Mining
 - ☐ 3. Fisheries

Q.13 The colourful art named Nandna block print, which uses graceful yet aligned arrangements of motifs on fabric, is practised in Tarapur village of _____.

- Ans**
- ✓ 1. Madhya Pradesh
 - ✗ 2. Maharashtra
 - ✗ 3. Uttarakhand
 - ✗ 4. Odisha

Q.14 Where is the Bandipur National Park located?

- Ans**
- ✗ 1. Sikkim
 - ✓ 2. Karnataka
 - ✗ 3. Kerala
 - ✗ 4. Gujarat

Q.15 Right to move freely throughout the territory of India' is a fundamental right under _____ of the Constitution of India.

- Ans**
- ✗ 1. Article 24
 - ✗ 2. Article 14
 - ✗ 3. Article 21
 - ✓ 4. Article 19

Q.16 Which Indian received the Nobel Peace Prize after Mother Teresa?

- Ans**
- ✗ 1. K Radhakrishnan
 - ✓ 2. Kailash Satyarthi
 - ✗ 3. P Sathasivam
 - ✗ 4. Fali Nariman

Q.17 Which of the following destroys the ozone layer?

Ans

- ☐ 1. Carbon
- ☒ 2. Chlorine
- ☐ 3. Silicon
- ☐ 4. Sulphur

Q.18 International Day of Forests 2019 was observed on 21st March with the theme _____ to raise awareness on how sustainably managed forests provide a wide array of contributions.

- Ans**
- ☐ 1. Pollution-free Forests'
 - ☐ 2. Forests Our Saviour'
 - ☐ 3. Forests and Environment'
 - ☒ 4. Forests and Education'

Q.19 World ____ Day 2019 was observed on 22nd March with the theme 'Leaving no one behind' to focus on marginalised groups.

- Ans**
- ☐ 1. Environment
 - ☐ 2. Forest
 - ☐ 3. Petroleum
 - ☒ 4. Water

Q.20 Which is the longest national highway in India?

- Ans**
- ☐ 1. National Highway 48
 - ☐ 2. National Highway 27
 - ☒ 3. National Highway 44
 - ☐ 4. National Highway 53

Q.21 _____, which connects Sikkim with Tibet, was closed after the Chinese aggression on India in 1962 but was reopened in 2006 as the governments of the two countries decided to enhance their trade through land routes.

- Ans**
- ☐ 1. Lanak La
 - ☐ 2. Imis La
 - ☐ 3. Pensi La
 - ☒ 4. Nathu La

Q.22 Lok Adalats have been created under _____.

- Ans
- ☐ 1. Arbitration and Conciliation Act
 - ☐ 2. Administration of Justice Act
 - ☐ 3. Legal Conciliation Act
 - ☒ 4. Legal Services Authority Act

Q.23 Which was the first Muslim dynasty that ruled India?

- Ans
- ☐ 1. Khilji dynasty
 - ☐ 2. Tughlaq dynasty
 - ☐ 3. Lodhi dynasty
 - ☒ 4. Slave dynasty

Q.24 The popular Bagh cave paintings are found in _____.

- Ans
- ☐ 1. Sikkim
 - ☒ 2. Madhya Pradesh
 - ☐ 3. Himachal Pradesh
 - ☐ 4. Odisha

Q.25 Which of the following metals is the most reactive metal?

- Ans
- ☐ 1. Zinc
 - ☐ 2. Copper
 - ☐ 3. Iron
 - ☒ 4. Calcium

Section : English Comprehension

Q.1 Select the most appropriate word to fill in the blank.

There is hope that better forestry management will help in the _____ of the wild life that is constantly facing threat because of increasing human activities.

- Ans
- ☒ 1. salvation
 - ☒ 2. supervision
 - ☒ 3. guarding
 - ☒ 4. conservation

Q.2 Select the antonym of the given word.

AGONY

- Ans
- ☒ 1. misery
 - ☒ 2. distress
 - ☒ 3. anxiety
 - ☒ 4. comfort

Q.3 Select the word which means the same as the group of words given.

an enclosure to keep the birds in

- Ans
- ☒ 1. aviary
 - ☒ 2. apiary
 - ☒ 3. stable
 - ☒ 4. sanctuary

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.

Pigeon racing has become increasingly popular in parts of China (1)_____ the country's elite and its middle class. Sun Yan, the deputy general-secretary of Beijing Racing Pigeons Association,(2)_____ that at least 100,000 pigeon breeders live in Beijing, and (3)_____ 90,000 of them are registered with Racing Pigeons Associations at (4)_____ levels, to qualify for the games held in the spring and autumn. Competitions can be lucrative for (5)_____ owners, with some prizes amounting to tens of thousands of dollars. Liu said in recent years, pigeon racing has been surging in popularity across China.

SubQuestion No : 4

Q.4 Select the most appropriate option for blank No. 1.

- Ans
- ☒ 1. along
 - ☒ 2. about
 - ☒ 3. against
 - ☒ 4. among

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.

Pigeon racing has become increasingly popular in parts of China (1)_____ the country's elite and its middle class. Sun Yan, the deputy general-secretary of Beijing Racing Pigeons Association,(2)_____ that at least 100,000 pigeon breeders live in Beijing, and (3)_____ 90,000 of them are registered with Racing Pigeons Associations at (4)_____ levels, to qualify for the games held in the spring and autumn. Competitions can be lucrative for (5)_____ owners, with some prizes amounting to tens of thousands of dollars. Liu said in recent years, pigeon racing has been surging in popularity across China.

SubQuestion No : 5

Q.5 Select the most appropriate option for blank No. 2.

- Ans
- ☒ 1. told
 - ☒ 2. said
 - ☒ 3. advised
 - ☒ 4. clarified

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.

Pigeon racing has become increasingly popular in parts of China (1)_____ the country's elite and its middle class. Sun Yan, the deputy general-secretary of Beijing Racing Pigeons Association,(2)_____ that at least 100,000 pigeon breeders live in Beijing, and (3)_____ 90,000 of them are registered with Racing Pigeons Associations at (4)_____ levels, to qualify for the games held in the spring and autumn. Competitions can be lucrative for (5)_____ owners, with some prizes amounting to tens of thousands of dollars. Liu said in recent years, pigeon racing has been surging in popularity across China.

SubQuestion No : 6

Q.6 Select the most appropriate option for blank No. 3.

- Ans
- ☒ 1. utmost
 - ☒ 2. nearby
 - ☒ 3. exact

✓ 4. almost

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.

Pigeon racing has become increasingly popular in parts of China (1)_____ the country's elite and its middle class. Sun Yan, the deputy general-secretary of Beijing Racing Pigeons Association,(2)_____ that at least 100,000 pigeon breeders live in Beijing, and (3)_____ 90,000 of them are registered with Racing Pigeons Associations at (4)_____ levels, to qualify for the games held in the spring and autumn. Competitions can be lucrative for (5)_____ owners, with some prizes amounting to tens of thousands of dollars. Liu said in recent years, pigeon racing has been surging in popularity across China.

SubQuestion No : 7

Q.7 Select the most appropriate option for blank No. 4.

- Ans ✓ 1. different
✗ 2. differential
✗ 3. differed
✗ 4. differ

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.

Pigeon racing has become increasingly popular in parts of China (1)_____ the country's elite and its middle class. Sun Yan, the deputy general-secretary of Beijing Racing Pigeons Association,(2)_____ that at least 100,000 pigeon breeders live in Beijing, and (3)_____ 90,000 of them are registered with Racing Pigeons Associations at (4)_____ levels, to qualify for the games held in the spring and autumn. Competitions can be lucrative for (5)_____ owners, with some prizes amounting to tens of thousands of dollars. Liu said in recent years, pigeon racing has been surging in popularity across China.

SubQuestion No : 8

Q.8 Select the most appropriate option for blank No. 5.

- Ans ✓ 1. bird
✗ 2. birds
✗ 3. animal
✗ 4. pigeons

Q.9 Select the wrongly spelt word.

- Ans ✗ 1. controversial
✗ 2. conquer
✗ 3. cooperation
✓ 4. contamporary

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

- A. Around 600 million of them live in areas of high to extreme water stress.
- B. India is suffering from the worst water crisis, with one billion people living in water scarcity.
- C. This is even more than that of China and US combined.
- D. The reason is that at 24 per cent, India uses the most groundwater drawn out globally.

Ans  1. BADC

 2. BDAC

 3. ADCB

 4. ACBD

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

An inscription on a tombstone written in memory of the deceased

Ans  1. pillar

 2. epitaph

 3. basilica

 4. slab

Q.12 Select the most appropriate meaning of the given idiom.

pull yourself together

Ans  1. go to sleep


 2. try to understand

 3. do a good job


 4. calm down

Q.13 Select the wrongly spelt word.

Ans  1. expereince

 2. explain

 3. expire

 4. except

Q.14 Select the antonym of the given word.

EMINENT

- Ans**
- ☒ 1. distinguished
 - ☒ 2. exalted
 - ☒ 3. impressive
 - ☒ 4. inconspicuous

Q.15 In the sentence identify the segment which contains the grammatical error.

Cyclone Idai is regarded as one of the worst tropical cyclone on record to affect Africa and the Southern Hemisphere as a whole.

- Ans**
- ☒ 1. Cyclone Idai is regarded
 - ☒ 2. as a whole
 - ☒ 3. to affect Africa
 - ☒ 4. the worst tropical cyclone

Q.16 Select the synonym of the given word.

INDELIBLE

- Ans**
- ☒ 1. illegal
 - ☒ 2. ineffective
 - ☒ 3. inerasable
 - ☒ 4. illegible

Q.17 Select the correct active form of the given sentence.

Their children were brought up with great care.

- Ans**
- ☒ 1. They brought up their children with great care.
 - ☒ 2. Their children brought them up with great care.
 - ☒ 3. They have been bringing up their children with great care.
 - ☒ 4. They had brought up their children with great care.

Q.18 Select the most appropriate word to fill in the blank.

The burning of the effigy of Ravana on Dussehra _____ the burning of all evils.

- Ans
- ☐ 1. epitomizes
 - ☐ 2. personifies
 - ☐ 3. intensifies
 - ☒ 4. symbolizes

Q.19 Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.

I try to solve this problem at least for two hours.

- Ans
- ☒ 1. have been trying to solve
 - ☐ 2. tried to be solving
 - ☐ 3. am try to solve
 - ☐ 4. No improvement

Q.20 Select the correct passive form of the given sentence.

At night, lock the outer gate.

- Ans
- ☐ 1. The outer gate is locked at night.
 - ☐ 2. The outer gate be locked at night.
 - ☐ 3. The outer gate is requested to be locked at night.
 - ☒ 4. Let the outer gate be locked at night.

Q.21 Select the most appropriate meaning of the given idiom.

give someone the cold shoulder

- Ans
- ☐ 1. do something pointless
 - ☒ 2. ignore someone
 - ☐ 3. pamper someone
 - ☐ 4. give away a secret

Q.22 In the sentence identify the segment which contains the grammatical error.

Every employee of the company were given a two bedroom flat as Diwali bonus.

Ans

- ☒ 1. were given
- ☐ 2. Every employee
- ☐ 3. as Diwali bonus
- ☐ 4. a two bedroom flat

Q.23 Select the synonym of the given word.

TRIUMPH

- Ans**
- ☐ 1. peace
 - ☐ 2. attack
 - ☐ 3. fight
 - ☒ 4. victory

Q.24 Given below are four jumbled sentences. Select the option that gives their correct order.

- A. Mango, the so-called "king of fruits", is something of a national obsession in India.
- B. There was a bumper crop of mangoes in different states.
- C. It resulted in prices coming down and sales going up – much to the delight of buyers and sellers alike.
- D. 2017 proved to be a very good year for mango lovers.

- Ans**
- ☐ 1. CADB
 - ☐ 2. CDAB
 - ☐ 3. ADCB
 - ☒ 4. ADBC

Q.25 Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.




If you listen to the English news, it improve your English.

- Ans**
- ☐ 1. No improvement
 - ☒ 2. it will improve
 - ☐ 3. it improved
 - ☐ 4. it is improving





Section : General Intelligence and Reasoning

Q.1 Select the set in which the numbers are related in the same way as are the numbers of the following set.

(8, 12, 24)

- Ans**  1. (12, 20, 40)
 2. (9, 18, 27)
 3. (6, 9, 18)
 4. (6, 10, 18)

Q.2 Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.


- Ans**  1. 65
 2. 217
 3. 28
 4. 338

Q.3 Which number will replace the question mark (?) in the following series?

98, 95, 86, 82, 66, ?, 36

- Ans**  1. 58
 2. 63
 3. 61
 4. 60

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

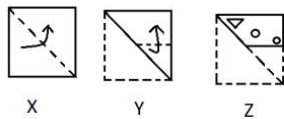
- Ans**  1. Mahanadi

- ☒ 2. Godavari
- ☒ 3. Krishna
- ☒ 4. Tapti

Q.5 In a code language, COMPUTER is written as OCREPMTU. How will DAUGHTER be written in the same language?

- Ans**
- ☒ 1. ADTHREGU
 - ☒ 2. ADERUGTH
 - ☒ 3. ADREGUTH
 - ☒ 4. READTHGU

Q.6 The sequence of folding a piece of square paper (figures X and Y) and the manner in which the folded paper has been cut (figure Z) are shown. How will the paper appear when unfolded?



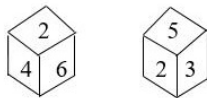
Ans

- ☒ 1.
- ☒ 2.
- ☒ 3.
- ☒ 4.

Q.7 If CAB is coded as 6 and BED is coded as 40, then how will HAD be coded as?

- Ans**
- ☒ 1. 52
 - ☒ 2. 46
 - ☒ 3. 32
 - ☒ 4. 16

Q.8 Two different positions of the same dice are shown. Which number will be at the top if 4 is at the bottom?



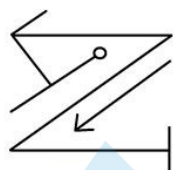
- Ans**
- ☒ 1. 6
 - ☒ 2. 3
 - ☒ 3. 5
 - ☒ 4. 1

Q.9 Select the number-pair in which the two numbers are related in the same way as are the two numbers of the following number-pair.

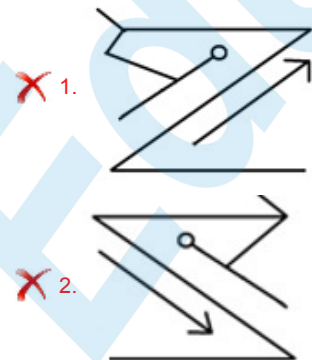
7 : 32

- Ans**
- ☒ 1. 13 : 98
 - ☒ 2. 12 : 85
 - ☒ 3. 3 : 11
 - ☒ 4. 16 : 145

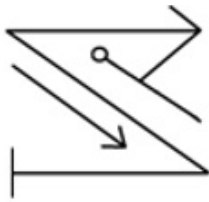
Q.10 Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.



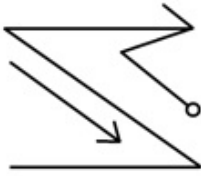
Ans



✓ 3.



✗ 4.



Q.11 Arrange the following words in a logical and meaningful order.

1. Student
2. Job
3. Interview
4. Education
5. Retirement
6. Degree

Ans

✓ 1. 1, 4, 6, 3, 2, 5

✗ 2. 1, 5, 3, 6, 4, 2

✗ 3. 5, 3, 2, 1, 4, 6

✗ 4. 3, 5, 4, 6, 1, 2

Q.12 Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

MNOP : LONQ :: FGHI : ?

Ans

✗ 1. EGHJ

✓ 2. EHGI

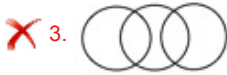
✗ 3. DHGK

✗ 4. GFIJ

Q.13 Select the Venn diagram that best illustrates the relationship between the following classes.

Snakes, Reptiles, Poisonous

Ans



Q.14 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 crow is a bird.

All birds are animals.

Conclusions:

I. Some animals are crows.

II. Some animals are birds.

III. No animal is a crow.

Ans

☒ 1. Only conclusion III follows

☒ 2. Only conclusions I and III follow

☒ 3. None of the conclusions follows

☒ 4. Conclusion II and either conclusion I or III follows

Q.15 Two mixtures contain milk and juice in the ratio of 2 : 1 and 4 : 5. If equal volumes of the two mixtures are mixed together, what would be ratio of milk to juice in the resulting mixture?

Ans

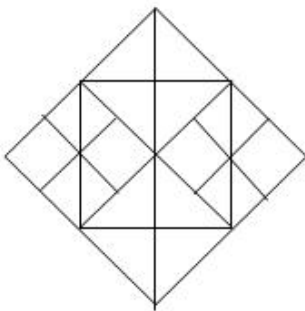
☒ 1. 1 : 1

☒ 2. 5 : 3

☒ 3. 5 : 4

☒ 4. 7 : 5

Q.16 How many squares are there in the following figure?



- Ans
- ☒ 1. 16
 - ☒ 2. 14
 - ☒ 3. 18
 - ☒ 4. 12

Q.17 Select the option in which the given figure is embedded.



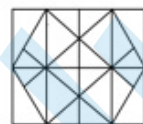
(X)

Ans

☒ 1.



☒ 2.



☒ 3.



☒ 4.



Q.18 'Cinema' is related to 'Audience' in the same way as 'Church' is related to '_____'.

- Ans**
- ☒ 1. Concentration
 - ☒ 2. Prayer
 - ☒ 3. Congregation
 - ☒ 4. Meditation

Q.19 Select the set in which the numbers are related in the same way as are the numbers of the following set.

(5, 13, 12)

- Ans**
- ☒ 1. (6, 10, 8)
 - ☒ 2. (11, 15, 9)
 - ☒ 3. (13, 17, 11)
 - ☒ 4. (15, 19, 13)

Q.20 Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

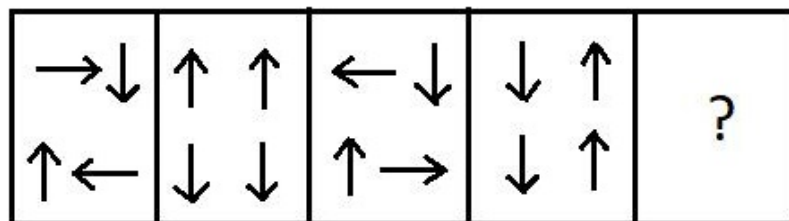
ba_c_ab_cd_a_ac_ca

- Ans**
- ☒ 1. cadbc
 - ☒ 2. dacbd
 - ☒ 3. dcbac
 - ☒ 4. bdabc

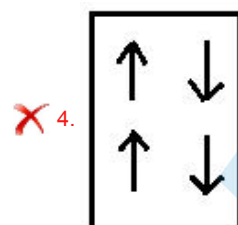
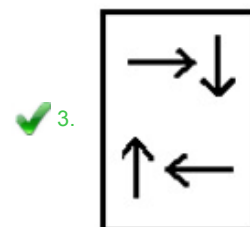
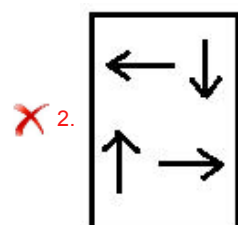
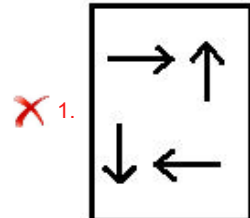
Q.21 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

- Ans**
- ☒ 1. MLNO
 - ☒ 2. CBDE
 - ☒ 3. FGHJ
 - ☒ 4. RQST

Q.22 Select the figure that will come next in the following figure series.



Ans



Q.23 Which two signs should be interchanged in the following equation to make it correct?

$$10 + 5 \div 10 \times 8 - 10 = 16$$

Ans ✗ 1. \times and $+$

✗ 2. $+$ and \div

✗ 3. \div and \times

✓ 4. $-$ and $+$

Q.24 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.

Apathy : Enthusiasm

- Ans**
- ☒ 1. Treaty : Friendship
 - ☒ 2. Enrolment : Employment
 - ☒ 3. Condemnation : Reverence
 - ☒ 4. War : Attack

Q.25 D is the son of C and the brother of E, who is the niece of F. C is the sister of B and the aunt of A. B's father has two children, a son and a daughter. If A is the son of F, how is F related to C?

- Ans**
- ☒ 1. Aunt
 - ☒ 2. Sister
 - ☒ 3. Sister-in-law
 - ☒ 4. Cousin

Section : Quantitative Aptitude

Q.1 If $x = a + \frac{1}{a}$ and $y = a - \frac{1}{a}$ then $\sqrt{x^4 + y^4 - 2x^2y^2}$ is equal to:

Ans ✓ 1. 4

☐ 2. $16a^2$

☐ 3. $\frac{8}{a^2}$

☐ 4. 8

Q.2 ABCD is a cyclic quadrilateral whose diagonals intersect at P. If $AB = BC$, $\angle DBC = 70^\circ$ and $\angle BAC = 30^\circ$, then the measure of $\angle PCD$ is:

Ans ☐ 1. 30°

☐ 2. 55°

☒ 3. 50°

☐ 4. 35°

Q.3 $\frac{\sin\theta - \cos\theta + 1}{\sin\theta + \cos\theta - 1} = ?$

Ans ☒ 1. $\sec\theta + \tan\theta$

☐ 2. $\sec\theta - \tan\theta$

☐ 3. $\sec\theta \tan\theta$

☐ 4. $\sec\theta \sin\theta$

Q.4 The table shows the production of different types of cars by a company (in thousands) in 5 years.

Car Year	A	B	C	D	E
2014	52	54	48	46	64
2015	47	45	53	50	45
2016	48	47	56	54	65
2017	43	50	57	67	63
2018	38	40	54	68	70

The total production of type B cars in all the five years is what percent more than the total production of type A, B and D cars in 2017?

Ans ☐ 1. 49.5

☐ 2. 32.2

☐ 3. 57.3

☒ 4. 47.5

Q.5 A and B are travelling towards each other from the points P and Q respectively. After crossing each other, A and B take $6\frac{1}{8}$ hours and 8 hours, respectively, to reach their destinations Q and P, respectively. If the speed of B is 16.8 km/h, then the speed (in km/h) of A is:

- Ans ☒ 1. 19.2
☒ 2. 20.4
☒ 3. 19.8
☒ 4. 20.8

Q.6 ABCD is a trapezium in which $AB \parallel DC$ and its diagonals intersect at P. If $AP = (3x-1)$ cm, $PC = (5x-3)$ cm, $BP = (2x+1)$ cm and $PD = (6x-5)$ cm, then the length of DB is:

- Ans ☒ 1. 10 cm
☒ 2. 16 cm
☒ 3. 14 cm
☒ 4. 12 cm

Q.7 The table shows the production of different types of cars by a company (in thousands) in 5 years.

Car Year	A	B	C	D	E
2014	52	54	48	46	64
2015	47	45	53	50	45
2016	48	47	56	54	65
2017	43	50	57	67	63
2018	38	40	54	68	70

What is the ratio of the total production of type C cars in 2015 and type D cars in 2017 taken together to the total production of type B cars in 2016 and type A cars in 2017 taken together?

- Ans ☒ 1. 13 : 10
☒ 2. 12 : 11
☒ 3. 11 : 9
☒ 4. 4 : 3

Q.8 The income of A is 50% more than that of B. If the income of A is increased by 40% and the income of B is increased by 90%, then the percentage increase in their combined income will be:

- Ans ☒ 1. 70
☒ 2. 55
☒ 3. 60
☒ 4. 64

Q.9 If $12 \cot^2 \theta - 31 \operatorname{cosec} \theta + 32 = 0$, $0^\circ < \theta < 90^\circ$, then the values of $\tan \theta$ will be:

Ans

☐ 1. $\frac{5}{4}, \frac{4}{3}$

☒ 2. $\frac{4}{3}, \frac{3\sqrt{7}}{7}$

☐ 3. $\frac{4}{5}, \frac{5\sqrt{7}}{7}$

☐ 4. $\frac{4}{5}, \frac{4}{3}$

Q.10 The value of $\sqrt{\sec^2 \theta + \operatorname{cosec}^2 \theta} \times \sqrt{\tan^2 \theta - \sin^2 \theta}$ is equal to:

- Ans ☒ 1. $\sin \theta \sec^2 \theta$
☐ 2. $\operatorname{cosec} \theta \cos^2 \theta$
☐ 3. $\sin \theta \cos^2 \theta$
☐ 4. $\operatorname{cosec} \theta \sec^2 \theta$

Q.11 A sum of ₹15,000 is lent at 16% p.a. compound interest. What is the difference between the compound interest for the second year and the third year?

- Ans ☐ 1. ₹548
☐ 2. ₹454.88
☒ 3. ₹445.44
☐ 4. ₹544

Q.12 The average of thirteen numbers is 80. The average of the first five numbers is 74.5 and that of the next five numbers is 82.5. The 11th number is 6 more than the 12th number and the 12th number is 6 less than the 13th number. What is the average of the 11th and the 13th numbers?

- Ans ☐ 1. 86.5
☐ 2. 87.5
☒ 3. 87
☐ 4. 86

Q.13 A circle is inscribed in $\triangle ABC$, touching AB at P, BC at Q and AC at R. If AR = 5 cm, RC = 6 cm and AB = 12 cm, then the perimeter of $\triangle ABC$ is:

- Ans ☒ 1. 36 cm
☐ 2. 37 cm
☐ 3. 40 cm
☐ 4. 32 cm

Q.14 The table shows the production of different types of cars by a company (in thousands) in 5 years.

Car Year	A	B	C	D	E
2014	52	54	48	46	64
2015	47	45	53	50	45
2016	48	47	56	54	65
2017	43	50	57	67	63
2018	38	40	54	68	70

The average production of type D cars in 5 years is what percent less than the production of type E cars in 2018?
(Correct to one decimal place)

- Ans ☐ 1. 16.8
☒ 2. 18.6
☐ 3. 17.4
☐ 4. 15.9

Q.15 If $ab + bc + ca = 8$ and $a^2 + b^2 + c^2 = 20$, then a possible value of

$\frac{1}{2}(a + b + c)[(a - b)^2 + (b - c)^2 + (c - a)^2]$ is:

- Ans ☐ 1. 84
☒ 2. 72
☐ 3. 56
☐ 4. 80

Q.16 A person sold an article at a loss of 8%. Had he sold it at a gain of 10.5%, he would have received ₹92.50 more. To gain 12%, he should have sold it for:

- Ans ☐ 1. ₹540.50
☒ 2. ₹560
☐ 3. ₹537.40
☐ 4. ₹580

Q.17 If the 8-digit number $2074x4y2$ is divisible by 88, then the value of $(4x + 3y)$ is:

- Ans
- ☐ 1. 42
 - ☐ 2. 36
 - ☒ 3. 45
 - ☐ 4. 49

Q.18 Pipes A and B can fill a tank in one hour and two hours respectively while pipe C can empty the filled up tank in one hour and fifteen minutes. A and C are turned on together at 9 a.m. After 2 hours, only A is closed and B is turned on. When will the tank be emptied?

- Ans
- ☐ 1. 11:30 a.m.
 - ☐ 2. 10:30 a.m.
 - ☒ 3. 12:20 p.m.
 - ☐ 4. 12:10 p.m.

Q.19 A shopkeeper marks his goods at 40% more than their cost price and allows a discount of 25% on the marked price. His gain or loss percent is:

- Ans
- ☐ 1. 5% loss
 - ☐ 2. 10% loss
 - ☒ 3. 5% gain
 - ☐ 4. 15% gain

Q.20 The volume of a metallic cylindrical pipe is 7480 cm^3 . If its length is 1.4 m and its external radius is 9 cm, then its thickness (given $\pi = \frac{22}{7}$) is:

- Ans
- ☐ 1. 1.2 cm
 - ☐ 2. 0.8 cm
 - ☐ 3. 0.9 cm
 - ☒ 4. 1 cm

Q.21 The value of $(5 + 3 \div 5 \times 5) \div (3 \div 3 \text{ of } 6)$ of $(4 \times 4 \div 4 \text{ of } 4 + 4 \div 4 \times 4)$ is:

- Ans
- ☐ 1. $6\frac{2}{3}$
 - ☐ 2. $7\frac{1}{3}$

☐ 3. $8\frac{1}{5}$

☒ 4. $9\frac{3}{5}$

Q.22 The table shows the production of different types of cars by a company (in thousands) in 5 years.

Car Year	A	B	C	D	E
2014	52	54	48	46	64
2015	47	45	53	50	45
2016	48	47	56	54	65
2017	43	50	57	67	63
2018	38	40	54	68	70

If the data related to the production of cars in 2018 is represented by pie chart, then the central angle of the sector representing the production of type C cars will be:

Ans ☐ 1. 91°

☐ 2. 93°

☒ 3. 72°

☐ 4. 59°

Q.23 If $(8x^3 - 27y^3) \div (2x - 3y) = (Ax^2 + Bxy + Cy^2)$, then the value of $(2A + B - C)$ is:

Ans ☐ 1. 3

☐ 2. 4

☒ 3. 5

☐ 4. 6

Q.24 When x is subtracted from each of 21, 22, 60 and 64, the numbers so obtained, in this order, are in proportion. What is the mean proportional between $(x + 1)$ and $(7x + 8)$?

Ans ☐ 1. 21

☒ 2. 24

☐ 3. 18

☐ 4. 27

Q.25 G is the centroid of the triangle ABC, where AB, BC and CA are 7 cm, 24 cm and 25 cm respectively, then BG is:

Ans ☒ 1. $8\frac{1}{3}$ cm

~~✗~~ 2. $6\frac{1}{3}$ cm

~~✗~~ 3. $4\frac{1}{6}$ cm

~~✗~~ 4. $5\frac{1}{2}$ cm

Section : **General Awareness**

Q.1 TV remote controls work on the principle of _____.

- Ans
- ☐ 1. Bluetooth technology
 - ☒ 2. Infrared waves
 - ☐ 3. Ultrasonic waves
 - ☐ 4. Laser technology

Q.2 A sustained rise in the general price level in an economy is called _____.

- Ans
- ☐ 1. Stagflation
 - ☐ 2. Disinflation
 - ☐ 3. Deflation
 - ☒ 4. Inflation

Q.3 Who founded the Indian Statistical Institute on 17 December 1931?

- Ans
- ☐ 1. M.H. Hansen
 - ☐ 2. R.A. Fischer
 - ☐ 3. F. Yates
 - ☒ 4. P.C. Mahalanobis

Q.4 Kala Bhavana, founded in 1919, is a noted institution of education and research in visual arts. It is located in _____.

- Ans
- ☐ 1. Uttar Pradesh
 - ☐ 2. Bihar

- ☒ 3. Sikkim
- ☒ 4. West Bengal

Q.5 In March 2019, who among the followings was appointed as India's first Lokpal?

- Ans**
- ☒ 1. Justice S A Bobde
- ☒ 2. Justice Pinaki Chandra Ghose
- ☒ 3. Justice N V Ramana
- ☒ 4. Justice A K Sikri

Q.6 Pramod Sawant became Chief Minister of which Indian state in March, 2019?

- Ans**
- ☒ 1. Tamil Nadu
- ☒ 2. Kerala
- ☒ 3. Goa
- ☒ 4. Maharashtra

Q.7 _____ is the study of the microanatomy of cells, tissues and organs as seen through a microscope.

- Ans**
- ☒ 1. Entomology
- ☒ 2. Paleontology
- ☒ 3. Ichthyology
- ☒ 4. Histology

Q.8 Who was appointed as the director of Bhabha Atomic Research Centre (BARC) for a period of three years in March 2019?

- Ans**
- ☒ 1. Vishvapavan Pati
- ☒ 2. Satyajeet Rajan
- ☒ 3. Ajit Kumar Mohanty
- ☒ 4. Kamlesh Nilkanth Vyas

Q.9 Government of India nominated member of NITI Aayog, _____ to head the Food and

Agricultural Organisation (FAO) in March 2019.

- Ans
- ☒ 1. Binay Ranjan Sen
 - ☒ 2. Ramesh Chand
 - ☒ 3. V K Paul
 - ☒ 4. Amitabh Kant

Q.10 In March 2019, the government of India appointed _____ as the director-general of the National Archives of India.

- Ans
- ☒ 1. P V Ramesh
 - ☒ 2. V K Paul
 - ☒ 3. Binay Sen
 - ☒ 4. Kamlesh Vyas

Q.11 In March 2019, India won five silver medals at the Makran Cup Boxing Tournament in Iran. Who among the following is NOT one of the silver medallists?

- Ans
- ☒ 1. Manish Kaushik
 - ☒ 2. Duryodhan Singh Negi
 - ☒ 3. P Lalitha Prasad
 - ☒ 4. Deepak Singh

Q.12 Rust needs three components to occur, i.e., _____.

- Ans
- ☒ 1. Steel, iron and oxygen
 - ☒ 2. Helium, hydrogen and nitrogen
 - ☒ 3. Iron, nitrogen and moisture
 - ☒ 4. Iron, oxygen and moisture

Q.13 Who founded the Sayyid dynasty?

- Ans
- ☒ 1. Bahlul Khan
 - ☒ 2. Nizam Shah
 - ☒ 3. Khizr Khan
 - ☒ 4. Muhammad-bin-Farid

Q.14 _____ was observed nationwide from 24th to 30th April, 2019.

- Ans
- ☒ 1. World Tourism Week
 - ☒ 2. World Immunization Week
 - ☒ 3. World Environment Week
 - ☒ 4. World Postal Week

Q.15 Which of the following articles promotes equal justice and free legal aid for all the citizens?

- Ans
- ☒ 1. 39A
 - ☒ 2. 43A
 - ☒ 3. 32A
 - ☒ 4. 48A

Q.16 Which of the following passes connects Tawang with Lhasa?

- Ans
- ☒ 1. Bum La Pass
 - ☒ 2. Chankan Pass
 - ☒ 3. Hpungan Pass
 - ☒ 4. Kumjawng Pass

Q.17 _____ created history in its second Twenty20 International against Ireland by achieving the highest ever T20 total at the Rajiv Gandhi International Cricket Stadium in Dehradun, Uttarakhand.

- Ans
- ☒ 1. Pakistan
 - ☒ 2. Australia
 - ☒ 3. Afghanistan
 - ☒ 4. India

Q.18 Majuli, the largest river island in the world is located in

- Ans
- ☒ 1. Uttar Pradesh
 - ☒ 2. Nagaland

☒ 3. Arunachal Pradesh

☒ 4. Assam

Q.19 The invasion of Delhi by Timur in ____ A.D marked the end of the Tughlaq empire.

Ans ☒ 1. 1452

☒ 2. 1645

☒ 3. 1215

☒ 4. 1398

Q.20 _____ is a scientific discipline concerned with the study of plant pollen, spores, and certain microscopic planktonic organisms, in both, living and fossil form.

Ans ☒ 1. Ethnobotany

☒ 2. Dendrology

☒ 3. Paleobotany

☒ 4. Palynology

Q.21 Poush Mela displays local artisans displaying folk dances, music, food and culture of _____.

Ans ☒ 1. Gujarat

☒ 2. Uttarakhand

☒ 3. Rajasthan

☒ 4. West Bengal

Q.22 _____ is the branch of zoology concerned with the study of amphibians.

Ans ☒ 1. Ethology

☒ 2. Morphology

☒ 3. Mammology

☒ 4. Herpetology

Q.23 _____ in Himachal Pradesh is a famous tourist attraction.

Ans

- ✓ 1. Rohtang Pass
- ✗ 2. Chang-La Pass
- ✗ 3. Aghil Pass
- ✗ 4. Mintaka Pass

Q.24 Who among the following was one of the Governors during the reign of Alauddin Khilji?

Ans

- ✓ 1. Ghiyasuddin Tughlaq
- ✗ 2. Shams-ud-din Iltutmish
- ✗ 3. Jalal-ud-din Khilji
- ✗ 4. Nasiruddin Mahmud

Q.25 Which of the following passes is known as the gateway connecting Jammu and Srinagar?

Ans

- ✗ 1. Chang-La Pass
- ✓ 2. Banihal Pass
- ✗ 3. Aghil Pass
- ✗ 4. Lanak-La Pass

Section : English Comprehension

Q.1 In the sentence identify the segment which contains the grammatical error.

The street artist Satish Munjal has been painting this wall since the past one week.

Ans



1. since the past one week



2. has been painting



3. this wall



4. The street artist

Q.2 Select the wrongly spelt word.

- Ans
- ☒ 1. measure
 - ☒ 2. meadow
 - ☒ 3. megre
 - ☒ 4. matter

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

The Head has been so busy to go through these files and resolve the matter.

- Ans
- ☒ 1. No improvement
 - ☒ 2. too busy to go through
 - ☒ 3. too so busy to go through
 - ☒ 4. such busy to go through

Q.4 Given below are four jumbled sentences. Select the option that gives their correct order.

- A. Canada accounts for nearly one-third of the world's production of news print.
- B. Forest products, therefore, have been important export items of Canada for more than a century.
- C. A large part of Canada is covered with coniferous trees.
- D. Pulp and paper are the two most important forest products.

- Ans
- ☒ 1. ABCD
 - ☒ 2. CBDA
 - ☒ 3. DCAB
 - ☒ 4. BACD

Q.5 Select the antonym of the given word.

FINITE

- Ans
- ☒ 1. limited
 - ☒ 2. finished
 - ☒ 3. endless
 - ☒ 4. bound

Q.6 Select the antonym of the given word.

REPRIMAND

- Ans ☒ 1. compliment
☒ 2. apprehend
☒ 3. blame
☒ 4. reproach

Q.7 Select the correct active form of the given sentence.

The wall of this park is being painted by children.

- Ans ☒ 1. The wall is painting children of this park.
☒ 2. Children are painting the wall of this park.
☒ 3. Children have been painting the wall of this park.
☒ 4. Children painted the wall of this park.

Q.8 Select the most appropriate meaning of the given idiom.

Lead someone by the nose

- Ans ☒ 1. to quarrel with someone
☒ 2. to dominate someone
☒ 3. to do the right thing
☒ 4. to force someone to take the blame

Q.9 Select the word which means the same as the group of words given.

Persons living at the same time

- Ans ☒ 1. contemporaries
☒ 2. compatriots
☒ 3. colleagues
☒ 4. cosmopolitans

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

- A. In China, thousands of people celebrated it.
B. The Lunar New Year of the Pig began on 5th February.

C. Others burned the first joss sticks of the year to bring them good fortune.
D. Some performers re-enacted historical ceremonies.

- Ans
- ☒ 1. BDCA
 - ☒ 2. DABC
 - ☒ 3. BADC
 - ☒ 4. ABCD

Q.11 Select the most appropriate option to fill in the blank.

In many countries the _____ in pay for men and women is quite common, for example, in Germany women are paid 21 per cent less as compared to men.

- Ans
- ☒ 1. equivalence
 - ☒ 2. disagreement
 - ☒ 3. unlikeliness
 - ☒ 4. disparity

Q.12 Select the synonym of the given word.

DUBIOUS

- Ans
- ☒ 1. certain
 - ☒ 2. steady
 - ☒ 3. loyal
 - ☒ 4. fishy

Q.13 Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.

You won't tell the secret, won't you?

- Ans
- ☒ 1. isn't it
 - ☒ 2. would you
 - ☒ 3. No improvement
 - ☒ 4. will you

Q.14 Select the wrongly spelt word.

- Ans
- ☒ 1. remonstrate
 - ☒ 2. rendezvous

☒ 3. remuneration

☒ 4. renaissance

Q.15 Select the synonym of the given word.

ENTICE

Ans ☒ 1. enrage

☒ 2. entrap

☒ 3. ensue

☒ 4. entail

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.

In 1914 a war began in Europe which engulfed the entire world. The damage (1)_____ by this war has no precedent in history. (2)_____ the earlier wars, the civilian populations were (3)_____ not involved and the casualties were mostly (4)_____ to the warring armies. The war (5)_____ began in 1914 was a total war in which all the resources of the warring states were mobilized.

SubQuestion No : 16

Q.16 Select the most appropriate option for blank No. 1.

Ans ☒ 1. generated

☒ 2. made

☒ 3. caused

☒ 4. began

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.

In 1914 a war began in Europe which engulfed the entire world. The damage (1)_____ by this war has no precedent in history. (2)_____ the earlier wars, the civilian populations were (3)_____ not involved and the casualties were mostly (4)_____ to the warring armies. The war (5)_____ began in 1914 was a total war in which all the resources of the warring states were mobilized.

SubQuestion No : 17

Q.17 Select the most appropriate option for blank No. 2.

Ans ☒ 1. Into

☒ 2. At

☒ 3. In

☒ 4. On

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.

In 1914 a war began in Europe which engulfed the entire world. The damage (1)_____ by this war has no precedent in history. (2)_____ the earlier wars, the civilian populations were (3)_____ not involved and the casualties were mostly (4)_____ to the warring armies. The war (5)_____ began in 1914 was a total war in which all the resources of the warring states were mobilized.

SubQuestion No : 18

Q.18 Select the most appropriate option for blank No. 3.

- Ans ☒ 1. broadly
☒ 2. chiefly
☒ 3. generally
☒ 4. finally

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.

In 1914 a war began in Europe which engulfed the entire world. The damage (1)_____ by this war has no precedent in history. (2)_____ the earlier wars, the civilian populations were (3)_____ not involved and the casualties were mostly (4)_____ to the warring armies. The war (5)_____ began in 1914 was a total war in which all the resources of the warring states were mobilized.

SubQuestion No : 19

Q.19 Select the most appropriate option for blank No. 4.

- Ans ☒ 1. belonged
☒ 2. bound
☒ 3. confined
☒ 4. retrained

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.

In 1914 a war began in Europe which engulfed the entire world. The damage (1)_____ by this war has no precedent in history. (2)_____ the earlier wars, the civilian populations were (3)_____ not involved and the casualties were mostly (4)_____ to the warring armies. The war (5)_____ began in 1914 was a total war in which all the resources of the warring states were mobilized.

SubQuestion No : 20

Q.20 Select the most appropriate option for blank No. 5.

- Ans ☒ 1. what

☒ 2. whom

☒ 3. who

☒ 4. which

Q.21 Select the correct passive form of the given sentence.

Take this suitcase upstairs.

Ans ☒ 1. This suitcase should be taken upstairs.

☒ 2. You are requested to take this suitcase upstairs.

☒ 3. Let this suitcase been taken upstairs.

☒ 4. You must be taking this suitcase upstairs.

Q.22 Select the most appropriate meaning of the given idiom.

Couch potato

Ans ☒ 1. a person who watches too much television

☒ 2. a person who is simple in nature

☒ 3. a person who sleeps all day

☒ 4. a person who remains relaxed and calm

Q.23 In the sentence identify the segment which contains the grammatical error.

I know the cobbler which mends the shoes outside the gate of our colony.

Ans ☒ 1. I know the cobbler

☒ 2. which mends

☒ 3. the shoes

☒ 4. outside the gate

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

Catholics and Protestants have a long history of _____ in Northern Ireland but volunteers from both communities came together to build the monument of Peace.

Ans ☒ 1. contest

☒ 2. agreement

☒ 3. truce

✓ 4. conflict

Q.25 Select the word which means the same as the group of words given.

Someone who believes that people cannot change the way events will happen





- Ans
- ☒ 1. seer
 - ☒ 2. fanatic
 - ☒ 3. fatalist
 - ☒ 4. prophet

CGLE- Combined Graduate Level Tier-I, 2018 Examination

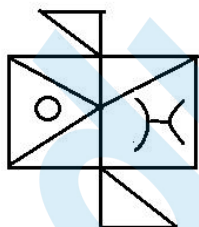
Section : General Intelligence and Reasoning

Q.1 Arrange the following words in a logical and meaningful order.

1. Writing
2. Distributing
3. Publishing
4. Printing
5. Editing

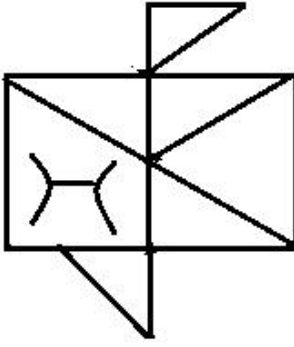
Ans  1. 1, 2, 3, 4, 5
 2. 2, 4, 3, 1, 5
 3. 1, 5, 4, 3, 2
 4. 2, 3, 4, 5, 1

Q.2 Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.

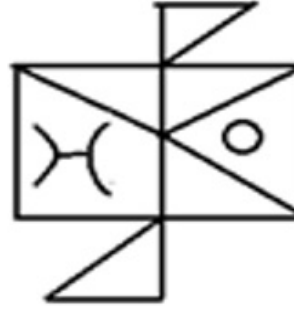


Ans

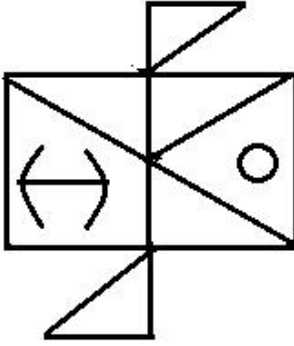
✗ 1.



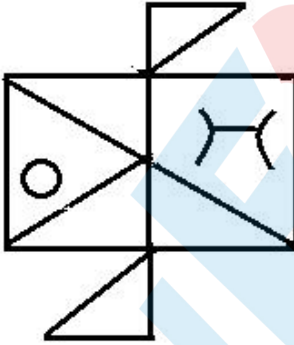
✓ 2.



✗ 3.



✗ 4.



Q.3 उस विकल्प का चयन करें जो तीसरे पद से उसी प्रकार संबंधित है जैसे दूसरा पद पहले पद से संबंधित है।

प्रसन्न : आनंदित :: उदास :

Ans

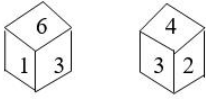
✗ 1. संतुष्ट

✗ 2. विनोदपूर्ण

✓ 3. विषाद-ग्रस्त

✗ 4. आनंदपूर्ण

Q.4 Two different positions of the same dice are shown. Which number will be at the top if 1 is at the bottom?



Ans ✗ 1. 6

✗ 2. 5

✓ 3. 4

✗ 4. 2

Q.5 Select the set in which the numbers are related in the same way as are the numbers of the following set.

(12, 16, 28)

Ans ✗ 1. (9, 15, 21)

✗ 2. (20, 25, 35)

✓ 3. (18, 24, 42)

✗ 4. (36, 48, 77)

Q.6 Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

dc_abc_cb_bcd_ba_c

Ans ✓ 1. bdacb

✗ 2. cbadb

✗ 3. bdcab

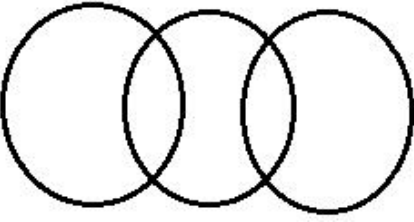
✗ 4. dbacb

Q.7 Select the Venn diagram that best illustrates the relationship between the following classes.

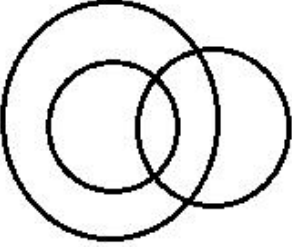
Doctors, Salaried Persons, Parents

Ans

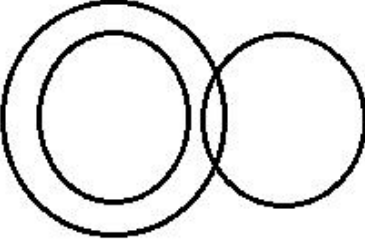
✗ 1.



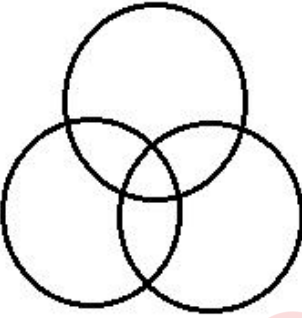
✗ 2.



✗ 3.



✓ 4.



Q.8 जिस प्रकार 'गूंगापन' 'बोलने' से संबंधित है उसी प्रकार _____ 'स्मृति' से संबंधित है।

Ans

✓ 1. स्मृतिलोप

✗ 2. पहचान

✗ 3. सोच-विचार

✗ 4. भ्रम

Q.9 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

Ans

✗ 1. BIRD

✗ 2. DECK

✓ 3. ZOOM

☒ 4. PAST

Q.10 If POSTER is coded as 592314 and DARK is coded as 8647, then how will STROKE be coded as?

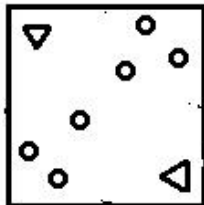
- Ans ☒ 1. 234971
☒ 2. 493287
☒ 3. 329417
☒ 4. 234917

Q.11 A square paper is folded and cut as shown below. How will it appear when unfolded?

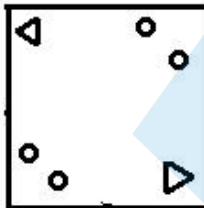


Ans

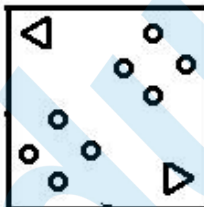
☒ 1.



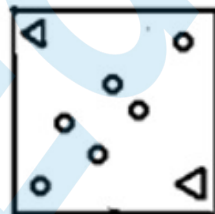
☒ 2.



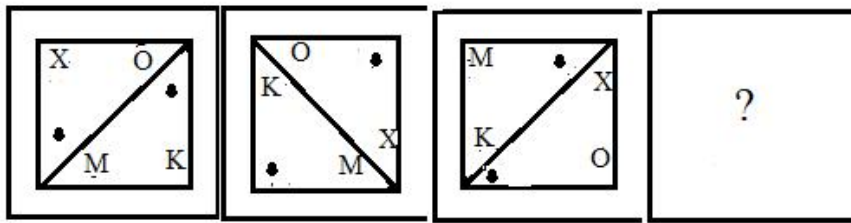
☒ 3.



☒ 4.

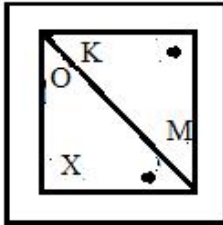


Q.12 Select the figure that will come next in the following figure series.

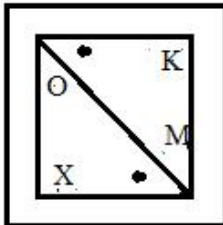


Ans

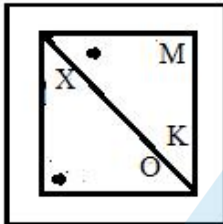
✗ 1.



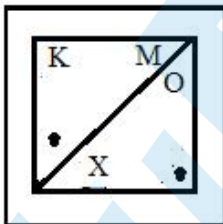
✓ 2.



✗ 3.



✗ 4.



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


$$12 - 6 \div 12 \times 6 + 6 = 9$$

Ans

✓ 1. - and +

✗ 2. ÷ and ×

✗ 3. × and +

 4. + and ÷

Q.14 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:

Some students are players.

Some players are athletes.


Conclusions:


I. Some students are athletes.


II. Some players are students.


III. No student is an athlete.

Ans

 1. Only conclusion I follows

 2. Only conclusions II and III follow


 3. Only conclusion II and either conclusion I or III follow

 4. None of the conclusions follows


Q.15 Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.


JKLM : HLKO :: PQRS : ?

Ans

 1. MRQV

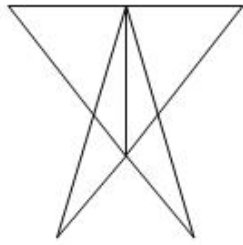
 2. NRQU

 3. NQRU

 4. ORQT

Q.16

How many triangles are there in the following figure?



- Ans
- ☒ 1. 11
 - ☒ 2. 12
 - ☒ 3. 15
 - ☒ 4. 13

Q.17 Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.

- Ans
- ☒ 1. 341
 - ☒ 2. 132
 - ☒ 3. 166
 - ☒ 4. 209

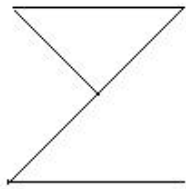
Q.18 Select the number-pair in which the two numbers are related in the same way as are the two numbers of the following number-pair.

28 : 63

- Ans
- ☒ 1. 16 : 36
 - ☒ 2. 36 : 78
 - ☒ 3. 12 : 28
 - ☒ 4. 48 : 98

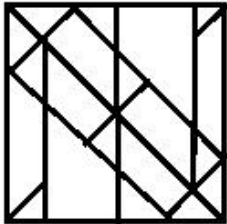
Q.19

Select the option in which the given figure is embedded.

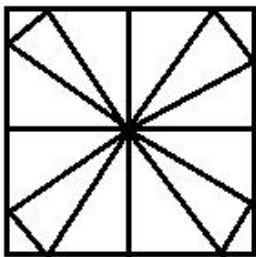


Ans

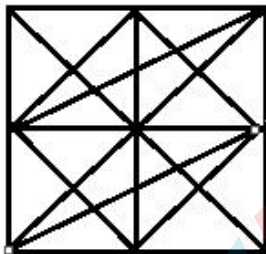
✗ 1.



✗ 2.



✓ 3.



✗ 4.



Q.20 ₹820 is divided among 6 men, 8 women and 12 boys in such a way that every woman gets an amount equal to that received by one man and one boy combined and that every man gets one and a half times the amount received by a boy. What is the total amount received by 8 women?

Ans

✗ 1. ₹300

✗ 2. ₹380

✓ 3. ₹400

✗ 4. ₹240

Q.21 Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

- Ans
- ☒ 1. Papaya
 - ☒ 2. Cucumber
 - ☒ 3. Pomegranate
 - ☒ 4. Guava

Q.22 In a family of eight persons, there are two couples, each having two children. C and D are cousin brothers. The father of E is married to G, who is the aunt of F. F's mother, H, is married to B, the brother of A. C is the nephew of H. How is A related to D?

- Ans
- ☒ 1. Nephew
 - ☒ 2. Father
 - ☒ 3. Uncle
 - ☒ 4. Brother

Q.23 Which number will replace the question mark (?) in the following series?

2, 3, 6, 10, 17, 28, ?

- Ans
- ☒ 1. 45
 - ☒ 2. 46
 - ☒ 3. 43
 - ☒ 4. 39

Q.24 In a code language, TEACHING is written as SDBDGH OH. How will BOOKWORM be written as in that language?


- Ans
- ☒ 1. ANPLVNSN
 - ☒ 2. ANPLXPSL
 - ☒ 3. CPNJXPSL
 - ☒ 4. ANPLXNNS


Q.25


Select the set in which the numbers are related in the same way as are the numbers of the following set.


(15, 22, 31)

Ans

 1. (11, 18, 29)

 2. (7, 14, 23)

 3. (5, 11, 20)

 4. (23, 30, 40)

Section : Quantitative Aptitude

Q.1 If $x^2 + y^2 + z^2 = 133$, $xy + yz + zx = 114$ and $xyz = 216$, then the value of $x^3 + y^3 + z^3$ is:

- Ans**
- ☒ 1. 942
 - ☒ 2. 948
 - ☒ 3. 1009
 - ☒ 4. 999

Q.2 A trader marks his goods at 40% above the cost price. He sells 70% of the goods at the marked price and the rest, he sells by allowing a 40% discount on the marked price. His percentage profit is:

- Ans**
- ☒ 1. 23.4
 - ☒ 2. 24.4
 - ☒ 3. 23.2
 - ☒ 4. 24.2

Q.3 The table shows the production of different types of cars (in thousands).

Year Car	2012	2013	2014	2015	2016
A	54	58	60	63	55
B	40	54	56	61	67
C	46	50	63	73	77
D	33	35	48	45	49
E	47	43	53	48	52

The total production of all type of cars, except type B, in 2012 is what percent less than the total production of all types of cars in 2016?

- Ans
- ☒ 1. 42
 - ☒ 2. 25.8
 - ☒ 3. 26.7
 - ☒ 4. 40

Q.4 The length of a metallic pipe is 7.56 m. Its external and internal radii are 2.5 cm and 1.5 cm respectively. If 1 cm^3 of the metal weigh 7.5 g, then the weight of the pipe is: (Take $\pi = \frac{22}{7}$)

- Ans
- ☒ 1. 70.14 kg
 - ☒ 2. 71.28 kg
 - ☒ 3. 72.82 kg
 - ☒ 4. 69.68 kg

Q.5 In a circle with centre O, ACBO is a parallelogram where C is a point on the minor arc AB. What is the measure of $\angle AOB$?

- Ans
- ☒ 1. 150°
 - ☒ 2. 120°
 - ☒ 3. 110°
 - ☒ 4. 100°

Q.6 If $2x^2 + y^2 + 6x - 2xy + 9 = 0$, then the value of $(4x^3 - y^3 + x^2y^2)$ is:

- Ans
- ☒ 1. -9
 - ☒ 2. 9
 - ☒ 3. 0
 - ☒ 4. -3

Q.7 ABCD is a parallelogram in which diagonals AD and BC intersect at O. AE and DF are perpendiculars on BC at E and F, respectively. Which of the following is NOT true?

- Ans**
- ☒ 1. $\triangle ABC \cong \triangle DCB$
 - ☒ 2. $\triangle AEB \cong \triangle DFC$
 - ☒ 3. $\triangle ADC \cong \triangle ABD$
 - ☒ 4. $\triangle AOE \cong \triangle DOF$

Q.8 If $\frac{\cos^2 \theta}{\cot^2 \theta - \cos^2 \theta} = 3, 0^\circ < \theta < 90^\circ$, then the value of $\cot \theta + \operatorname{cosec} \theta$ is:

- Ans**
- ☒ 1. $2\sqrt{3}$
 - ☒ 2. $\sqrt{3}$
 - ☒ 3. $\frac{\sqrt{3}}{2}$
 - ☒ 4. $\frac{3\sqrt{3}}{4}$

Q.9 The vertices of a $\triangle PQR$ lie on a circle with centre O. SR is a tangent to the circle at the point R. If QR bisects the $\angle ORS$, then what is the measure of $\angle RPQ$?

- Ans**
- ☒ 1. 40°
 - ☒ 2. 30°
 - ☒ 3. 60°
 - ☒ 4. 45°

Q.10 The table shows the production of different types of cars (in thousands).

Year \ Car	2012	2013	2014	2015	2016
A	54	58	60	63	55
B	40	54	56	61	67
C	46	50	63	73	77
D	33	35	48	45	49
E	47	43	53	48	52

What is the ratio of the total production of type E cars in 2014 and type C cars in 2016 taken together to the total production of type B cars in 2014 and type D cars in 2013 taken together?

- Ans**
- ☒ 1. $9 : 8$
 - ☒ 2. $11 : 8$
 - ☒ 3. $10 : 7$
 - ☒ 4. $11 : 5$

Q.11 The value of $\frac{9}{15}$ of $\left(\frac{2}{3} \div \frac{2}{3} \text{ of } \frac{3}{2}\right) \div \left(\frac{3}{4} \times \frac{3}{4} \div \frac{3}{4} \text{ of } \frac{4}{3}\right)$ of $\left(\frac{5}{4} \div \frac{5}{2} \times \frac{2}{5} \text{ of } \frac{4}{5}\right)$ is:

- Ans
- ☒ 1. $\frac{4}{25}$
 - ☒ 2. $\frac{20}{9}$
 - ☒ 3. $\frac{18}{125}$
 - ☒ 4. $\frac{40}{9}$

Q.12 The table shows the production of different types of cars (in thousands).

Year Car	2012	2013	2014	2015	2016
A	54	58	60	63	55
B	40	54	56	61	67
C	46	50	63	73	77
D	33	35	48	45	49
E	47	43	53	48	52

The total production of type E cars in 2012 and 2013 is approximately what percent more than the average production of type A cars during the years 2012 to 2016?

- Ans
- ☒ 1. 56.4
 - ☒ 2. 52.2
 - ☒ 3. 53.8
 - ☒ 4. 55.2

Q.13 In $\triangle ABC$ with sides 6 cm, 7 cm and 8 cm, the angle bisector of the largest angle divides the opposite side into two segments. What is the length of the shorter segment?

- Ans
- ☒ 1. $\frac{48}{13}$ cm
 - ☒ 2. $\frac{24}{5}$ cm
 - ☒ 3. $\frac{21}{5}$ cm
 - ☒ 4. $\frac{56}{13}$ cm

Q.14 The efficiencies of A, B and C are in the ratio 5 : 3 : 8. Working together they can complete a work in 30 days. A and B worked together for 20 days. The remaining work will be completed by C alone in:

- Ans
- ☒ 1. 36 days

☒ 2. 32 days

☒ 3. 30 days

☒ 4. 40 days

Q.15 If $x + y = 12$ and $xy = 27, x > y$, then the value of $(x^3 - y^3)$ is:

Ans ☒ 1. 702

☒ 2. 710

☒ 3. 724

☒ 4. 720

Q.16 The distance between two stations A and B is 800 km. A train X starts from A and moves towards B at 40 km/h and another train Y starts from B and moves towards A at 60 km/h. How far from A will they cross each other?

Ans ☒ 1. 320 km

☒ 2. 300 km

☒ 3. 380 km

☒ 4. 360 km

Q.17 If a 9-digit number $32x4115y2$ is divisible by 88, then the value of $(4x - y)$ for the smallest possible value of y , is:

Ans ☒ 1. 11

☒ 2. 31

☒ 3. -1

☒ 4. 20

Q.18 The average of twelve numbers is 46. The average of the first four numbers is 43 and that of the last five numbers is 49.4. The 5th and the 6th numbers are respectively 4 and 6 more than the 7th number. What is the average of the 5th and the 7th numbers?

Ans ☒ 1. 43.5

☒ 2. 44.5

☒ 3. 44

☒ 4. 43

Q.19 The ratio of the present ages of A and B is 8 : 9. After 9 years, this ratio will become 19 : 21. C is 3 years younger to B. What is the present age (in years) of C?

- Ans**
- ☐ 1. 52
 - ☐ 2. 48
 - ☐ 3. 49
 - ☒ 4. 51

Q.20 What is the compound interest on a sum of ₹10,000 at 14% p.a. for $2\frac{5}{7}$ years where the interest is compounded yearly? (nearest to ₹ 1)

- Ans**
- ☐ 1. ₹4,439
 - ☒ 2. ₹4,296
 - ☐ 3. ₹4,394
 - ☐ 4. ₹4,259

Q.21 When the price of an item was reduced by 20%, then its sale increased by $x\%$. If there is an increase of 60% in the receipt of the revenue, then the value of x is:

- Ans**
- ☐ 1. 80
 - ☐ 2. 120
 - ☐ 3. 96
 - ☒ 4. 100

Q.22 The table shows the production of different types of cars (in thousands).

Year Car	2012	2013	2014	2015	2016
A	54	58	60	63	55
B	40	54	56	61	67
C	46	50	63	73	77
D	33	35	48	45	49
E	47	43	53	48	52

If the data related to the production of type D cars is represented by a pie chart, then the central angle of the sector representing the production of cars in 2013 will be:

- Ans**
- ☐ 1. 84°
 - ☐ 2. 77°
 - ☐ 3. 75°
 - ☒ 4. 60°

Q.23 If $\sin \theta = 4 \cos \theta$, then what is the value of $\sin \theta \cos \theta$?

- Ans
- ☒ 1. $\frac{3}{10}$
 - ☒ 2. $\frac{3}{4}$
 - ☒ 3. $\frac{4}{17}$
 - ☒ 4. $\frac{2}{9}$

Q.24 Abhi bought two articles for ₹624. He sold one at a loss of 14% and the other at a profit of 14%. If the selling price of both the articles is equal, then the difference between their cost prices (in ₹) is:

- Ans
- ☒ 1. 89.64
 - ☒ 2. 88.84
 - ☒ 3. 89.68
 - ☒ 4. 87.36

Q.25 Let $a = \frac{2 \sin x}{1 + \sin x + \cos x}$ and $b = \frac{c}{1 + \sin x}$. Then $a = b$, if $c = ?$

- Ans
- ☒ 1. $1 + \sin x - \cos x$
 - ☒ 2. $1 - \sin x \cos x$
 - ☒ 3. $1 + \cos x - \sin x$
 - ☒ 4. $1 + \sin x \cos x$

Section : English Comprehension

Q.1 In the sentence identify the segment which contains the grammatical error.

The street artist Satish Munjal has been painting this wall since the past one week.

- Ans
- ☒ 1. since the past one week
 - ☒ 2. has been painting
 - ☒ 3. this wall
 - ☒ 4. The street artist

Q.2 Select the wrongly spelt word.

- Ans
- ☒ 1. measure
 - ☒ 2. meadow
 - ☒ 3. megre
 - ☒ 4. matter

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

The Head has been so busy to go through these files and resolve the matter.

- Ans
- ☒ 1. No improvement
 - ☒ 2. too busy to go through
 - ☒ 3. too so busy to go through
 - ☒ 4. such busy to go through

Q.4 Given below are four jumbled sentences. Select the option that gives their correct order.

- A. Canada accounts for nearly one-third of the world's production of news print.
- B. Forest products, therefore, have been important export items of Canada for more than a century.
- C. A large part of Canada is covered with coniferous trees.
- D. Pulp and paper are the two most important forest products.

- Ans
- ☒ 1. ABCD
 - ☒ 2. CBDA
 - ☒ 3. DCAB
 - ☒ 4. BACD

Q.5 Select the antonym of the given word.

FINITE

- Ans
- ☒ 1. limited
 - ☒ 2. finished
 - ☒ 3. endless
 - ☒ 4. bound

Q.6 Select the antonym of the given word.

REPRIMAND

- Ans ☒ 1. compliment
☒ 2. apprehend
☒ 3. blame
☒ 4. reproach

Q.7 Select the correct active form of the given sentence.

The wall of this park is being painted by children.

- Ans ☒ 1. The wall is painting children of this park.
☒ 2. Children are painting the wall of this park.
☒ 3. Children have been painting the wall of this park.
☒ 4. Children painted the wall of this park.

Q.8 Select the most appropriate meaning of the given idiom.

Lead someone by the nose

- Ans ☒ 1. to quarrel with someone
☒ 2. to dominate someone
☒ 3. to do the right thing
☒ 4. to force someone to take the blame

Q.9 Select the word which means the same as the group of words given.

Persons living at the same time

- Ans ☒ 1. contemporaries
☒ 2. compatriots
☒ 3. colleagues
☒ 4. cosmopolitans

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

- A. In China, thousands of people celebrated it.
B. The Lunar New Year of the Pig began on 5th February.

C. Others burned the first joss sticks of the year to bring them good fortune.
D. Some performers re-enacted historical ceremonies.

- Ans
- ☒ 1. BDCA
 - ☒ 2. DABC
 - ☒ 3. BADC
 - ☒ 4. ABCD

Q.11 Select the most appropriate option to fill in the blank.

In many countries the _____ in pay for men and women is quite common, for example, in Germany women are paid 21 per cent less as compared to men.

- Ans
- ☒ 1. equivalence
 - ☒ 2. disagreement
 - ☒ 3. unlikeliness
 - ☒ 4. disparity

Q.12 Select the synonym of the given word.

DUBIOUS

- Ans
- ☒ 1. certain
 - ☒ 2. steady
 - ☒ 3. loyal
 - ☒ 4. fishy

Q.13 Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.

You won't tell the secret, won't you?

- Ans
- ☒ 1. isn't it
 - ☒ 2. would you
 - ☒ 3. No improvement
 - ☒ 4. will you

Q.14 Select the wrongly spelt word.

- Ans
- ☒ 1. remonstrate
 - ☒ 2. rendezvous

☒ 3. remuneration

☒ 4. renaissance

Q.15 Select the synonym of the given word.

ENTICE

Ans ☒ 1. enrage

☒ 2. entrap

☒ 3. ensue

☒ 4. entail

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.

In 1914 a war began in Europe which engulfed the entire world. The damage (1)_____ by this war has no precedent in history. (2)_____ the earlier wars, the civilian populations were (3)_____ not involved and the casualties were mostly (4)_____ to the warring armies. The war (5)_____ began in 1914 was a total war in which all the resources of the warring states were mobilized.

SubQuestion No : 16

Q.16 Select the most appropriate option for blank No. 1.

Ans ☒ 1. generated

☒ 2. made

☒ 3. caused

☒ 4. began

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.

In 1914 a war began in Europe which engulfed the entire world. The damage (1)_____ by this war has no precedent in history. (2)_____ the earlier wars, the civilian populations were (3)_____ not involved and the casualties were mostly (4)_____ to the warring armies. The war (5)_____ began in 1914 was a total war in which all the resources of the warring states were mobilized.

SubQuestion No : 17

Q.17 Select the most appropriate option for blank No. 2.

Ans ☒ 1. Into

☒ 2. At

☒ 3. In

☒ 4. On

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.

In 1914 a war began in Europe which engulfed the entire world. The damage (1)_____ by this war has no precedent in history. (2)_____ the earlier wars, the civilian populations were (3)_____ not involved and the casualties were mostly (4)_____ to the warring armies. The war (5)_____ began in 1914 was a total war in which all the resources of the warring states were mobilized.

SubQuestion No : 18

Q.18 Select the most appropriate option for blank No. 3.

- Ans
- ☒ 1. broadly
 - ☒ 2. chiefly
 - ☒ 3. generally
 - ☒ 4. finally

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.

In 1914 a war began in Europe which engulfed the entire world. The damage (1)_____ by this war has no precedent in history. (2)_____ the earlier wars, the civilian populations were (3)_____ not involved and the casualties were mostly (4)_____ to the warring armies. The war (5)_____ began in 1914 was a total war in which all the resources of the warring states were mobilized.

SubQuestion No : 19

Q.19 Select the most appropriate option for blank No. 4.

- Ans
- ☒ 1. belonged
 - ☒ 2. bound
 - ☒ 3. confined
 - ☒ 4. retrained

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.

In 1914 a war began in Europe which engulfed the entire world. The damage (1)_____ by this war has no precedent in history. (2)_____ the earlier wars, the civilian populations were (3)_____ not involved and the casualties were mostly (4)_____ to the warring armies. The war (5)_____ began in 1914 was a total war in which all the resources of the warring states were mobilized.

SubQuestion No : 20

Q.20 Select the most appropriate option for blank No. 5.

- Ans
- ☒ 1. what

☒ 2. whom

☒ 3. who

☒ 4. which

Q.21 Select the correct passive form of the given sentence.

Take this suitcase upstairs.

Ans ☒ 1. This suitcase should be taken upstairs.

☒ 2. You are requested to take this suitcase upstairs.

☒ 3. Let this suitcase been taken upstairs.

☒ 4. You must be taking this suitcase upstairs.

Q.22 Select the most appropriate meaning of the given idiom.

Couch potato

Ans ☒ 1. a person who watches too much television

☒ 2. a person who is simple in nature

☒ 3. a person who sleeps all day

☒ 4. a person who remains relaxed and calm

Q.23 In the sentence identify the segment which contains the grammatical error.

I know the cobbler which mends the shoes outside the gate of our colony.

Ans ☒ 1. I know the cobbler

☒ 2. which mends

☒ 3. the shoes

☒ 4. outside the gate

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

Catholics and Protestants have a long history of _____ in Northern Ireland but volunteers from both communities came together to build the monument of Peace.

Ans ☒ 1. contest

☒ 2. agreement

☒ 3. truce

✓ 4. conflict

Q.25 Select the word which means the same as the group of words given.

Someone who believes that people cannot change the way events will happen

- Ans
- ☒ 1. seer
 - ☒ 2. fanatic
 - ☒ 3. fatalist
 - ☒ 4. prophet

Q.1 Minimum Support Price (MSP) is recommended by ____.

- Ans
- ☒ 1. The Food Safety and Standards Authority of India
 - ☒ 2. The Farmers' Welfare Society
 - ☒ 3. The Commission for Agricultural Costs and Prices
 - ☒ 4. The Commission for Weights and Measures

Question ID : **98958014277**
Status : **Answered**
Chosen Option : 1

Q.2 The Indian Passport was ranked ____ in the 'Global Passport Index Report 2019'.

- Ans
- ☒ 1. 67th
 - ☒ 2. 65th
 - ☒ 3. 56th
 - ☒ 4. 77th

Question ID : **98958014296**
Status : **Answered**
Chosen Option : 1

Q.3 ____ is the oldest golf course outside the United Kingdom.

- Ans
- ☒ 1. Royal Calcutta Golf Club, Kolkata
 - ☒ 2. Royal Springs Golf Course, Srinagar
 - ☒ 3. Tollygunge Golf Club, Kolkata
 - ☒ 4. Classic Golf Resort, New Delhi

Question ID : **98958014295**
Status : **Answered**
Chosen Option : 1

Q.4 Ricket' is a disease associated with the deficiency of _____.

- Ans
- ☒ 1. Vitamin A
 - ☒ 2. Vitamin C
 - ☒ 3. Vitamin D
 - ☒ 4. Vitamin B

Question ID : 98958014280
Status : Answered
Chosen Option : 3

Q.5 Who amongst the following succeeded the Mughal throne in the year 1556?

- Ans
- ☒ 1. Shah Jahan
 - ☒ 2. Sher Shah Suri
 - ☒ 3. Akbar
 - ☒ 4. Jehangir

Question ID : 98958014287
Status : Not Answered
Chosen Option : --

Q.6 What is India's rank in 2019 World Happiness Report?

- Ans
- ☒ 1. 160th
 - ☒ 2. 150th
 - ☒ 3. 140th
 - ☒ 4. 130th

Question ID : 98958014298
Status : Answered
Chosen Option : 4

Q.7 Which of the following is NOT a vocal form of Hindustani classical music?

- Ans
- ☒ 1. Tarana
 - ☒ 2. Pakhawaj
 - ☒ 3. Dhamar
 - ☒ 4. Drupad

Question ID : 98958014275
Status : Answered
Chosen Option : 3

Q.8 The Pradhan Mantri Shram Yogi Mandhan Yojana was launched by _____.

- Ans
- ☒ 1. Narendra Modi
 - ☒ 2. Smriti Zubin Irani
 - ☒ 3. Arun Jaitley
 - ☒ 4. Ram Nath Kovind

Question ID : 98958014297

Status : **Answered**
Chosen Option : 1

Q.9 The highest railway station in India is located in the state of ____.

- Ans
- ☒ 1. Sikkim
 - ☒ 2. Jammu & Kashmir
 - ☒ 3. West Bengal
 - ☒ 4. Uttar Pradesh

Question ID : 98958014284
Status : **Answered**
Chosen Option : 2

Q.10 During photosynthesis, green plants use energy from sunlight to synthesise ____ from carbon dioxide and water.

- Ans
- ☒ 1. sucrose
 - ☒ 2. fructose
 - ☒ 3. galactose
 - ☒ 4. glucose

Question ID : 98958014281
Status : **Answered**
Chosen Option : 3

Q.11 Varkala, Chowara, Chavakkad and Nattika are beaches in the state of ____.

- Ans
- ☒ 1. Tamil Nadu
 - ☒ 2. Karnataka
 - ☒ 3. Maharashtra
 - ☒ 4. Kerala

Question ID : 98958014283
Status : **Not Answered**
Chosen Option : --

Q.12 ____ is the largest river island in the world.

- Ans
- ☒ 1. Majuli
 - ☒ 2. Munroe
 - ☒ 3. Bahvani
 - ☒ 4. Umananda

Question ID : 98958014285
Status : **Answered**
Chosen Option : 1

Q.13 Who was the first woman judge of the Delhi High Court?

- Ans
- ☒ 1. Ruma Pal
 - ☒ 2. Leila Seth
 - ☒ 3. Anna Chandi
 - ☒ 4. Sujata Manohar

Question ID : 98958014291
Status : Answered
Chosen Option : 4

Q.14 The _____ was a group of seven Members of Parliament from the United Kingdom, constituted to suggest constitutional reforms for British India.

- Ans
- ☐ 1. Hunter Commission
 - ☐ 2. Fraser Commission
 - ☒ 3. Simon Commission
 - ☐ 4. Sargent Commission

Question ID : 98958014289
Status : Answered
Chosen Option : 1

Q.15 Which of the following is NOT a symptom of Wilson's disease?

- Ans
- ☐ 1. Problems with speech, swallowing or physical coordination
 - ☐ 2. Fluid build-up in the legs or abdomen
 - ☒ 3. Night blindness
 - ☐ 4. Uncontrolled movements or muscle stiffness

Question ID : 98958014278
Status : Answered
Chosen Option : 3

Q.16 The Khajuraho Temples are located in the state of _____.

- Ans
- ☐ 1. Andhra Pradesh
 - ☐ 2. Uttar Pradesh
 - ☒ 3. Madhya Pradesh
 - ☐ 4. Uttarakhand

Question ID : 98958014274
Status : Answered
Chosen Option : 3

Q.17 Bariatric surgery makes changes to a person's _____.

- Ans
- ☒ 1. digestive system
 - ☐ 2. heart
 - ☐ 3. nasal passage
 - ☐ 4. lungs

Question ID : 98958014279
Status : Answered
Chosen Option : 1

Q.18 Which of the following acid found in Apple?

- Ans
- ☒ 1. Malic Acid
 - ☐ 2. Formic Acid

- ☒ 3. Nitric Acid
- ☒ 4. Sulphuric Acid

Question ID : 98958014282
Status : Answered
Chosen Option : 1

Q.19 Article _____ of the Constitution of India gives the Election Commission the power to supervise elections to the Parliament and state legislatures.

- Ans
- ☒ 1. 314
 - ☒ 2. 341
 - ☒ 3. 324
 - ☒ 4. 342

Question ID : 98958014292
Status : Answered
Chosen Option : 2

Q.20 The Banking Regulation Act was passed in India in _____.

- Ans
- ☒ 1. 1949
 - ☒ 2. 1965
 - ☒ 3. 1951
 - ☒ 4. 1974

Question ID : 98958014276
Status : Answered
Chosen Option : 1

Q.21 Which one of the following was NOT a condition laid down in the Gandhi-Irwin Pact?

- Ans
- ☒ 1. Removal of salt tax; allowing to produce, trade and sell legally
 - ☒ 2. Participation in the Round Table Conference by the Indian National Congress
 - ☒ 3. Withdrawal of tax on khadi production
 - ☒ 4. The Indian National Congress should stop the civil disobedience movement

Question ID : 98958014288
Status : Answered
Chosen Option : 2

Q.22 _____ is the oldest member of the 16th Lok Sabha.

- Ans
- ☒ 1. Ram Jethmalani
 - ☒ 2. Murl Manohar Joshi
 - ☒ 3. Farooq Abdullah
 - ☒ 4. Lal Krishna Advani

Question ID : 98958014290
Status : Not Answered
Chosen Option : --

Q.23 _____ was the first and only Muslim woman to ever sit on the throne of Delhi.

Ans

- ☒ 1. Fatima Al Fihri
- ☒ 2. Razia Begum
- ☒ 3. Shajarat Al Durr
- ☒ 4. Gevher Sultan

Question ID : 98958014286
Status : Answered
Chosen Option : 2

Q.24 The National Board for Micro, Small and Medium Enterprises meets once every _____ months in a year.

- Ans
- ☒ 1. 9
 - ☒ 2. 3
 - ☒ 3. 6
 - ☒ 4. 2

Question ID : 98958014293
Status : Answered
Chosen Option : 3

Q.25 Who became the first Indian golfer to win on the 'Ladies European Tour' in 2016?

- Ans
- ☒ 1. Aditi Ashok
 - ☒ 2. Diksha Dagar
 - ☒ 3. Vani Kapoor
 - ☒ 4. Gursimar Badwal

Question ID : 98958014294
Status : Not Answered
Chosen Option : --

Section : Quantitative Aptitude

Q.1 The table shows the production of different types of cars (in thousands).

Year	2013	2014	2015	2016	2017
Cars					
A	48	47	50	61	64
B	47	55	58	54	66
C	52	58	62	66	72
D	60	53	56	65	66
E	43	47	54	64	62

The total production of type B cars in 2015 and type C cars in 2013 is what percent more than the total production of type E cars in 2013 and 2014? (Correct to one decimal place)

- Ans
- ☒ 1. 24.8
 - ☒ 2. 25.6
 - ☒ 3. 23.4
 - ☒ 4. 22.2

Question ID : 98958013273
Status : Answered
Chosen Option : 4

Q.2

Section :

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

We had never seen so strong blizzard. The wind speed was 130 km per hour .

Ans  1. such a strong blizzard

- ☒ 2. such strong a blizzard
- ☒ 3. no improvement
- ☒ 4. so strong the blizzard

Question ID : 98958012543
Status : Answered
Chosen Option : 1

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.

Canada is three times the size of India (1)_____ its population is only about 26 million. The average (2)_____ of population is less than three persons per square kilometer (3)_____ Canada. The distribution of population is highly (4)_____. Nearly 80 per cent of the people (5)_____ in a narrow belt less than 300 kilometer wide along the southern border. The rest of the country has a very sparse population due to excessive cold.

SubQuestion No : 2

Q.2 Select the most appropriate option for blank No. 1.

- Ans ☒ 1. so
☒ 2. but
☒ 3. until
☒ 4. because

Question ID : 98958012545
Status : Answered
Chosen Option : 2

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.

Canada is three times the size of India (1)_____ its population is only about 26 million. The average (2)_____ of population is less than three persons per square kilometer (3)_____ Canada. The distribution of population is highly (4)_____. Nearly 80 per cent of the people (5)_____ in a narrow belt less than 300 kilometer wide along the southern border. The rest of the country has a very sparse population due to excessive cold.

SubQuestion No : 3

Q.3 Select the most appropriate option for blank No. 2.

- Ans ☒ 1. density
☒ 2. frequency
☒ 3. consistency
☒ 4. quantity

Question ID : 98958012546
Status : Answered
Chosen Option : 1

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.

Canada is three times the size of India (1)_____ its population is only about 26 million. The average (2)_____ of population is less than three persons per square kilometer (3)_____ Canada. The distribution of population is highly (4)_____. Nearly 80 per cent of the people (5)_____ in a narrow belt less than 300 kilometer wide along the southern border. The rest of the country has a very sparse population due to excessive cold.

SubQuestion No : 4

Q.4 Select the most appropriate option for blank No. 3.

- Ans
- ☒ 1. into
 - ☒ 2. on
 - ☒ 3. in
 - ☒ 4. at

Question ID : 98958012547

Status : Answered

Chosen Option : 3

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.

Canada is three times the size of India (1)_____ its population is only about 26 million. The average (2)_____ of population is less than three persons per square kilometer (3)_____ Canada. The distribution of population is highly (4)_____. Nearly 80 per cent of the people (5)_____ in a narrow belt less than 300 kilometer wide along the southern border. The rest of the country has a very sparse population due to excessive cold.

SubQuestion No : 5

Q.5 Select the most appropriate option for blank No. 4.

- Ans
- ☒ 1. differing
 - ☒ 2. infrequent
 - ☒ 3. uneven
 - ☒ 4. rough

Question ID : 98958012548

Status : Answered

Chosen Option : 3

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.

Canada is three times the size of India (1)_____ its population is only about 26 million. The average (2)_____ of population is less than three persons per square kilometer (3)_____ Canada. The distribution of population is highly (4)_____. Nearly 80 per cent of the people (5)_____ in a narrow belt less than 300 kilometer wide along the southern border. The rest of the country has a very sparse population due to excessive cold.

SubQuestion No : 6

Q.6 Select the most appropriate option for blank No. 5.

- Ans
- ☒ 1. live
 - ☒ 2. remain
 - ☒ 3. survive
 - ☒ 4. subsist

Question ID : 98958012549

Status : Answered

Chosen Option : 1

Q.7 Select the word which means the same as the group of words given.

A person appointed by two parties to resolve a dispute

- Ans
- ☒ 1. valuer
 - ☒ 2. broker
 - ☒ 3. arbitrator
 - ☒ 4. auditor

Question ID : 98958012559
Status : Answered
Chosen Option : 3

Q.8 Select the most appropriate meaning of the given idiom.

out of the woods

- Ans
- ☒ 1. no longer in trouble
 - ☒ 2. no longer famous
 - ☒ 3. no longer in sight
 - ☒ 4. no longer young

Question ID : 98958012556
Status : Answered
Chosen Option : 1

Q.9 Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.

They didn't see you, is it?

- Ans
- ☒ 1. wasn't it
 - ☒ 2. did they
 - ☒ 3. no improvement
 - ☒ 4. have they

Question ID : 98958012542
Status : Answered
Chosen Option : 2

Q.10 Select the antonym of the given word.

COMIC


- Ans
- ☒ 1. amusing
 - ☒ 2. absurd
 - ☒ 3. awkward
 - ☒ 4. tragic

Question ID : 98958012554
Status : Answered
Chosen Option : 4

Q.11 Select the synonym of the given word.

DRAG

- Ans
- ☒ 1. rest
 - ☒ 2. rush

 3. push

 4. pull

Question ID : 98958012552

Status : Answered

Chosen Option : 4

Q.12 Given below are four jumbled sentences. Select the option that gives their correct order.

- A. It is one of the highly developed countries of the world.
- B. It stretches from the Atlantic Ocean in the east to the Pacific Ocean in the west.
- C. The USA consists of 50 states including Alaska and Hawaii.
- D. The United States of America (USA) is the 4th largest country in the world.

Ans  1. CBDA

 2. ADCB

 3. CBAD

 4. DBCA

Question ID : 98958012550

Status : Answered

Chosen Option : 4

Q.13 In the sentence identify the segment which contains the grammatical error.

We will rest for sometime when we will reach the top.

Ans  1. We will rest

 2. when we will

 3. for sometime

 4. reach the top

Question ID : 98958012538


Status : Answered

Chosen Option : 2

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

The river Yamuna has many non-native species like goldfish that is affecting its eco-system.

Ans  1. has many non-native species

 2. that is affecting

 3. its eco-system

 4. The river Yamuna

Question ID : 98958012539

Status : Answered

Chosen Option : 2

Q.15 Select the synonym of the given word.

ENGULF

Ans  1. entangle

 2. envelop

☒ 3. enshrine

☒ 4. encroach

Question ID : 98958012553

Status : Answered

Chosen Option : 2

Q.16 Select the antonym of the given word.

GATHER

Ans ☒ 1. disperse

☒ 2. distract

☒ 3. dispute

☒ 4. display

Question ID : 98958012555

Status : Answered

Chosen Option : 1

Q.17 Select the wrongly spelt word.

Ans ☒ 1. hasty

☒ 2. hasitate

☒ 3. hazard

☒ 4. hazy

Question ID : 98958012560

Status : Answered

Chosen Option : 2

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

Show these visitors the butterfly farm.

Ans ☒ 1. These visitors should be showed the butterfly farm.

☒ 2. You must show these visitors the butterfly farm.

☒ 3. Let these visitors be shown the butterfly farm.

☒ 4. Let these visitors be showing the butterfly farm.

Question ID : 98958012540

Status : Answered

Chosen Option : 2

Q.19 Given below are four jumbled sentences. Select the option that gives their correct order.

A. What was supposed to be a holiday of a lifetime turned into a dangerous experience for 1,300 passengers on a cruise ship off the coast of Norway.

B. The Norwegian Government decided to evacuate the passengers with the help of helicopters.

C. The ship broke down in rough seas and high-speed winds caused it to rock heavily from side to side.

D. From the first 371 evacuated passengers, 17 had to be taken to hospital.

Ans ☒ 1. CBDA

☒ 2. ACBD

☒ 3. ABCD

☒ 4. CABD

Question ID : 98958012551
Status : Answered
Chosen Option : 2

Q.20 Select the most appropriate meaning of the given idiom.

butterflies in the stomach

- Ans ☒ 1. being angry
☒ 2. being hungry
☒ 3. being excited
☒ 4. being nervous

Question ID : 98958012557
Status : Answered
Chosen Option : 4

Q.21 Select the most appropriate word to fill in the blank.

The National war memorial is _____ to our Armed Forces.

- Ans ☒ 1. dedicated
☒ 2. devoted
☒ 3. honoured
☒ 4. inscribed

Question ID : 98958012563
Status : Answered
Chosen Option : 1

Q.22 Select the word which means the same as the group of words given.

a family of young animals

- Ans ☒ 1. nest
☒ 2. brood
☒ 3. offspring
☒ 4. clutch

Question ID : 98958012558
Status : Answered
Chosen Option : 3

Q.23 Select the wrongly spelt word.

- Ans ☒ 1. reminascent
☒ 2. remembrance
☒ 3. remnant
☒ 4. remittance

Question ID : 98958012561
Status : Answered

Q.24 Select the most appropriate word to fill in the blank.

A painting competition was held in the colony and Kavya was _____ winner in the age group 3-5 years.

- Ans
- ☒ 1. publicized
 - ☒ 2. supposed
 - ☒ 3. declared
 - ☒ 4. described

Question ID : 98958012562

Status : Answered

Chosen Option : 3

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

The injured were being removed to the hospital by the police.

- Ans
- ☒ 1. The police removed the injured to the hospital.
 - ☒ 2. The police has been removing the injured to the hospital.
 - ☒ 3. The police was removing the injured to the hospital.
 - ☒ 4. The injured was removing the police to the hospital.

Question ID : 98958012541

Status : Answered

Chosen Option : 2

CGLE- Combined Graduate Level Tier-I, 2018 Examination

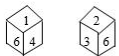
Section : General Intelligence and Reasoning

Q.1 Choose the set of numbers that is similar to the following set.

(6, 9, 18)

- Ans**
- ☒ 1. (14, 21, 42)
 - ☐ 2. (8, 14, 24)
 - ☐ 3. (10, 15, 35)
 - ☐ 4. (18, 27, 56)

Q.2 Two rotated positions of a dice are given below. Which number will be at the top if the number 1 is on the bottom of the dice?

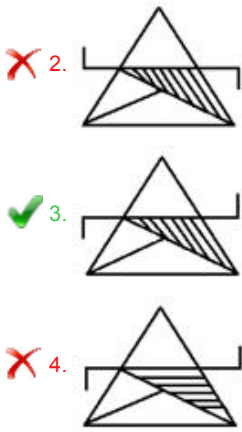


- Ans**
- ☒ 1. 3
 - ☐ 2. 6
 - ☐ 3. 2
 - ☐ 4. 5

Q.3 Identify the mirror image of the following figure when the mirror is placed to the right of the figure.



- Ans**
- ☐ 1.



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

- Ans** ☒ 1. Cessation
☒ 2. Valediction
☒ 3. Closure
☒ 4. Intermission

Q.5 Select the option that is related to the third term in the same way as the second term is related to the first term.

LAMP : PALM :: MALE : _____

- Ans** ☒ 1. ELAM
☒ 2. LAME
☒ 3. MEAL
☒ 4. EAML

Q.6 What will be the value of the following equation if '+' means 'addition', '-' means 'subtraction', '÷' means 'multiplication' and '×' means 'division'?

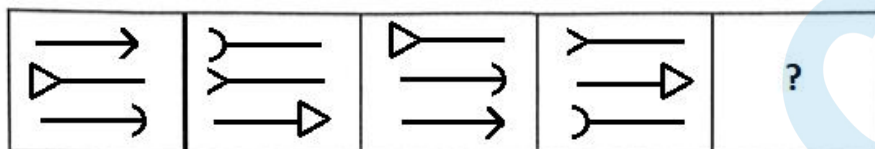
$$72 \times 9 - 3 \div 8 + 2 = ?$$

- Ans** ☒ 1. 25
☒ 2. 40
☒ 3. 35
☒ 4. 30

Q.7 In a code language, SEDATIVE is coded as ATDESEVI. How would PERSONAL be coded in that language?

- Ans**
- ☒ 1. OSREPLAN
 - ☒ 2. SOREPLAN
 - ☒ 3. SOERPANL
 - ☒ 4. SOPERLAN

Q.8 Select the figure that will come next in the following figure series.



Ans





- ☒ 1.
- ☒ 2.
- ☒ 3.
- ☒ 4.

Q.9 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

- Ans**
- ☒ 1. GKRV
 - ☒ 2. JNPS
 - ☒ 3. DGKL
 - ☒ 4. BFMQ





Q.10 Arrange the following words in a logical and meaningful order.

1. Cloud
2. Rainbow
3. Devastation
4. Rain
5. Low Pressure
6. Flood

Ans  1. 1, 5, 4, 2, 6, 3
 2. 5, 1, 2, 4, 6, 3
 3. 5, 4, 1, 2, 3, 6
 4. 5, 1, 4, 2, 6, 3





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.

Author : Book

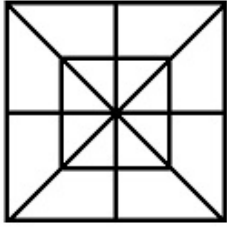
Ans  1. Spider : Web
 2. Doctor : Medicine
 3. Mother : Son
 4. Reptile : Crawl

Q.12 A letter series is given below in which some letters are missing. Select the option that gives the letters that can fill these blanks in that order.

a _ ca _ bab _ ad _ abc _ db

Ans  1. bddac
 2. bdcab
 3. bdcba
 4. bcdba

Q.13 How many triangles are there in the following figure?



- Ans
- ☒ 1. 28
 - ☒ 2. 24
 - ☒ 3. 36
 - ☒ 4. 32

Q.14 Two statements are followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they do not conform to real-world knowledge, decide which of the conclusion(s) logically follow/s from the statements.

Statements:

All ponds are pools.

Some wells are ponds.

Conclusions:

- I. Some ponds are not wells.
- II. Some wells are pools.
- III. All pools are wells.

- Ans
- ☒ 1. None of the conclusions follow
 - ☒ 2. Only conclusion I follows
 - ☒ 3. Only conclusion III follows
 - ☒ 4. Only conclusion II follows

Q.15 Find the next number in the given series.

3, 13, 31, ?, 91

- Ans
- ☒ 1. 48
 - ☒ 2. 69
 - ☒ 3. 57
 - ☒ 4. 63

Q.16 Select the number pair in which the two numbers are related in the same way as the two numbers of the pair given below.

35 : 6

- Ans**
- ☒ 1. 85 : 9
 - ☒ 2. 64 : 8
 - ☒ 3. 26 : 5
 - ☒ 4. 120 : 11

Q.17 Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

CDAF : XWZU :: DEFC : ?

- Ans**
- ☒ 1. WVXU
 - ☒ 2. WVUX
 - ☒ 3. XWYV
 - ☒ 4. VWXU

Q.18 'Room' is related to 'Ceiling' in the same way as 'Mouth' is related to:

- Ans**
- ☒ 1. Throat
 - ☒ 2. Lip
 - ☒ 3. Palate
 - ☒ 4. Teeth

Q.19 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

- Ans**
- ☒ 1. EFST
 - ☒ 2. GHTV
 - ☒ 3. CDQR
 - ☒ 4. ABOP

Q.20 Three of the following four word pairs are alike in a certain way and one is different. Pick the odd word out.

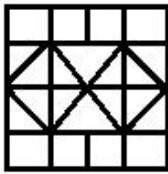
- Ans ☒ 1. Garden : Ladle
☒ 2. Study room : Table lamp
☒ 3. Kitchen : Frying pan
☒ 4. Bathroom : Shower

Q.21 Select the figure in which the given figure is embedded.

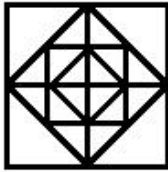


Ans

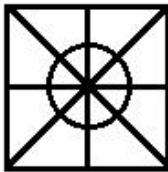
☒ 1.



☒ 2.



☒ 3.



☒ 4.



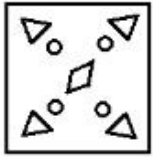
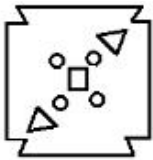
Q.22 A square paper is folded and cut as shown below. How will it appear when unfolded?



Ans

☒ 1.





Q.23 Select the term that will come in the place of ?

7, 11, 19, 31, ?, 67


Ans  1. 43

✓ 2. 47

X 3. 51

X 4. 45

Q.24 In a code language if VERY is written as UDQX, then in the same language how will you write the word URGENT?

Ans  1. TQFDMS

2. MSQTFD

3. QFDTMS

4. TMSQFD

Q.25 Choose the Venn diagram that best illustrates the relationship among the following classes:

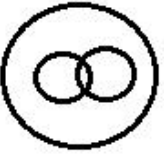
Women, Entrepreneurs, Engineers

Ans



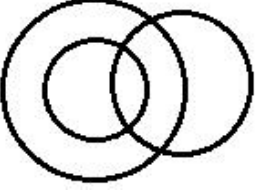
✗

2.



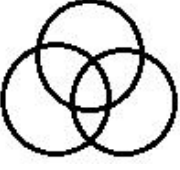
✗

3.



✓

4.



Section : Quantitative Aptitude

Q.1 The table shows the production of different types of cars (in thousands).

Year	2013	2014	2015	2016	2017
Cars					
A	48	47	50	61	64
B	47	55	58	54	66
C	52	58	62	66	72
D	60	53	56	65	66
E	43	47	54	64	62

The total production of type B cars in 2015 and type C cars in 2013 is what percent more than the total production of type E cars in 2013 and 2014? (Correct to one decimal place)

- Ans**
-  1. 24.8
 -  2. 25.6
 -  3. 23.4
 -  4. 22.2

If $(1 + \tan^2 \theta) + (1 + (\tan^2 \theta)^{-1}) = k$, then $\sqrt{k} = ?$

- Ans
- ☒ 1. $\sin \theta \cos \theta$
 - ☒ 2. $\operatorname{cosec} \theta \sec \theta$
 - ☒ 3. $\operatorname{cosec} \theta \cos \theta$
 - ☒ 4. $\sin \theta \sec \theta$

Q.3

The value of $\frac{1}{\sin \theta} - \frac{\cot^2 \theta}{1 + \operatorname{cosec} \theta}$ is:

- Ans
- ☒ 1. 0
 - ☒ 2. 1
 - ☒ 3. 2
 - ☒ 4. -1

Q.4

If a 10-digit number $2094x843y2$ is divisible by 88, then the value of $(5x - 7y)$ for the largest possible value of x , is:

- Ans
- ☒ 1. 5
 - ☒ 2. 6
 - ☒ 3. 2
 - ☒ 4. 3

Q.5

If $3\sqrt{3}x^3 - 2\sqrt{2}y^3 = (\sqrt{3}x - \sqrt{2}y)(Ax^2 + By^2 + Cxy)$, then the value of $(A \times B) \div C$ is:

- Ans
- ☒ 1. $\sqrt{6}$
 - ☒ 2. $6\sqrt{6}$
 - ☒ 3. $6\sqrt{3}$
 - ☒ 4. $\sqrt{3}$

Q.6

In a circle with center O and radius 10 cm, PQ and RS are two parallel chords of lengths x cm and 12 cm, respectively, and both the chords are on the opposite side of O . If the distance between PQ and RS is 14 cm, the value of x is:

- Ans
- ☒ 1. 15
 - ☒ 2. 16

☒ 3. 18

☒ 4. 20

Q.7 The area of a ΔABC is one unit. DE is a straight line parallel to BC, joining the points D and E on AB and AC respectively such that $AD : DB = 1 : 6$. The ratio of the areas of the triangles ADE and ABC is:

Ans ☒ 1. 1 : 6

☒ 2. 1 : 36

☒ 3. 1 : 7

☒ 4. 1 : 49

Q.8 The table shows the production of different types of cars (in thousands).

Year \ Cars	2013	2014	2015	2016	2017
A	48	47	50	61	64
B	47	55	58	54	66
C	52	58	62	66	72
D	60	53	56	65	66
E	43	47	54	64	62

The ratio of the total production of type A cars in 2017 and type D cars in 2015 to the total production of type B and type E cars in 2013 is:

Ans ☒ 1. 4 : 3

☒ 2. 3 : 4

☒ 3. 8 : 7

☒ 4. 7 : 8

Q.9 The table shows the production of different types of cars (in thousands).

Year \ Cars	2013	2014	2015	2016	2017
A	48	47	50	61	64
B	47	55	58	54	66
C	52	58	62	66	72
D	60	53	56	65	66
E	43	47	54	64	62

If the data related to the production of type D cars is represented by a pie-chart, then the central angle of the sector representing the production of the cars in 2016 will be:

Ans ☒ 1. 79.2°

☒ 2. 78°

☒ 3. 72°

☒ 4. 67.2°

Q.10 A train travelling at 44 km/h crosses a man walking with a speed of 8 km/h, in the same direction, in 15 seconds. If the train crosses a woman coming from the opposite direction in 10 seconds, then what is the speed (in km/h) of the woman?

- Ans**
- ☐ 1. 10.5
 - ☐ 2. 8.5
 - ☐ 3. 9
 - ☒ 4. 10

Q.11 Sudha saves 15% of her income. If her expenditure increases by 20% and savings increase by 60%, then by what percent has her income increased?

- Ans**
- ☐ 1. 24
 - ☐ 2. 30
 - ☒ 3. 26
 - ☐ 4. 35

Q.12 A person borrowed a certain sum at 10% p.a. for three years, interest being compounded annually. At the end of two years, he repaid a sum of ₹6,634 and at the end of the third year, he cleared off the debt by paying ₹13,200. What was the sum borrowed by him?

- Ans**
- ☐ 1. ₹15,600
 - ☐ 2. ₹16,500
 - ☐ 3. ₹16,400
 - ☒ 4. ₹15,400

Q.13 Some fruits are bought at a rate of 11 for ₹100 and an equal number at a rate of 9 for ₹100. If all the fruits are sold at a rate of 10 for ₹100, then what is the gain or loss percent in the entire transaction?

- Ans**
- ☐ 1. Loss, 5%
 - ☐ 2. Gain, 5%
 - ☐ 3. Gain, 1%
 - ☒ 4. Loss, 1%

Q.14 The value of $16 \div 4 \text{ of } 4 \times [3 \div 4 \text{ of } \{4 \times 3 \div (3 + 3)\}] \div (2 \div 4 \text{ of } 8)$ is:

Ans

☒ 1. 48

☒ 2. 6

☒ 3. 9

☒ 4. 16

Q.15 The table shows the production of different types of cars (in thousands).

Year \ Cars	2013	2014	2015	2016	2017
A	48	47	50	61	64
B	47	55	58	54	66
C	52	58	62	66	72
D	60	53	56	65	66
E	43	47	54	64	62

The total production of type B cars during 2013 to 2016 is approximately what percent less than the total production of cars in 2017?

Ans ☒ 1. 40%

☒ 2. 35%

☒ 3. 38%

☒ 4. 32%

Q.16 PQRS is a cyclic quadrilateral. If angle P is three times the angle R and angle S is five times the angle Q, then the sum of the angles Q and R is:

Ans ☒ 1. 70°

☒ 2. 65°

☒ 3. 72°

☒ 4. 75°

Q.17 If $a + \frac{1}{a} = 3$, then $\left(a^4 + \frac{1}{a^4}\right)$ is equal to:

Ans ☒ 1. 81

☒ 2. 77

☒ 3. 47

☒ 4. 27

Q.18

The average of eleven numbers is 54. The average of the first four numbers is 48 and that of the next four numbers is 25% more than the average of the first four. The ninth number is 8 greater than the 11th number and the tenth number is 4 greater than the 11th number. What is the average of the 9th and the 10th numbers?

- Ans ☒ 1. 56
☐ 2. 54
☐ 3. 54.4
☐ 4. 52.6

Q.19 If $a + b + c = 2$, $a^2 + b^2 + c^2 = 26$, then the value of $a^3 + b^3 + c^3 - 3abc$ is:

- Ans ☐ 1. 69
☐ 2. 71
☐ 3. 78
☒ 4. 74

Q.20 In $\triangle ABC$, D is a point on AC such that $AB = BD = DC$. If $\angle BAD = 70^\circ$, then the measure of $\angle B$ is:

- Ans ☐ 1. 70°
☐ 2. 80°
☒ 3. 75°
☐ 4. 82°

Q.21 In $\triangle ACE$, B and D are the points on side AC and CE, respectively, such that $BD \parallel AE$ and $AE = \frac{8}{3} BD$. What is the ratio of the area of $\triangle BDC$ to that of $\triangle AEC$?

- Ans ☐ 1. 9 : 16
☒ 2. 9 : 64
☐ 3. 3 : 8
☐ 4. 8 : 11

Q.22 $\left(\frac{1}{1 + \sin^2 \theta} + \frac{1}{1 + \operatorname{cosec}^2 \theta} \right) =$





- Ans ☐ 1. $\sin^2 \theta$
☒ 2. 1
☐ 3. $\operatorname{cosec}^2 \theta$

 4. 2

Q.23 To do a certain work, the ratio of the efficiencies of A, B and C is 7 : 5 : 6. Working together, they can complete the same work in 35 days. B and C work together for 21 days. The remaining work will be completed by A alone in:

- Ans**
-  1. 60 days
 -  2. 57 days
 -  3. 50 days
 -  4. 54 days

Q.24 If $\frac{\cos \theta}{1 - \sin \theta} + \frac{\cos \theta}{1 + \sin \theta} = 4$, $0^\circ < \theta < 90^\circ$, then the value of $(\tan \theta + \operatorname{cosec} \theta)$ is:

- Ans**
-  1. $\frac{4\sqrt{3}}{3}$
 -  2. $\frac{5\sqrt{3}}{3}$
 -  3. $\frac{5\sqrt{2}}{3}$
 -  4. $\frac{5\sqrt{2}}{2}$

Q.25 The radii of three concentric circles are in the ratio of 4 : 5 : 7. What is the ratio of the area between the two inner circles to that between the two outer circles?

- Ans**
-  1. 4 : 5
 -  2. 4 : 7
 -  3. 5 : 9
 -  4. 3 : 8