1. Select the correct combination of mathematical signs that can sequentially replace the

* signs and make the given equation correct.
$88 * 120 * 42 * 240 * 48 * 2$
A. $=, \times,+, \div,-$
B. $\times, \div,=,-,+$
C.,$+ \div,-,=, x$
D. $=,-,+, \div, \times$

Ans. (D)
2. Select the set of chases the relationship among which is best illustrated by the given venn diagram.

A. Potato, Peach, Vegetables
B. Natural numbers, Integers, Real numbers
C. Doctors, Singers, Extroverts
D. Peso, Currency, Taka

Ans. (D)
3. Select the correct option that indicates the arrangement of the given words in a logical
and meaningful order.

1. Chapterlist
2. Bibliography
3. Preface
4. Cover page
5. Chapters
A. 1. $2,5,1,4,3$
B. 2. $4,3,1,5,2$
C. $3.4,5,3,1,2$
D. 4 . $3,5,4,2,1$

Ans. (B)
4. Select the number from among the given options that can replace the question mark
(?) in the following series.
82, 105, 136, 177, 224, 283, ?
A. 412
B. 320
C. 350
D. 349

Ans. (C)
5. Study the given pattern carefully and select the number from among the given options
that can replace the question mark
(?) in it.

| 18 | 24 | 19 |
| :--- | :--- | :--- |
| 7 | 8 | 9 |
| 8 | 11 | 14 |
| 17 | $?$ | 14 |

A. 15
B. 21
C. 38
D. 30

Ans. (B)
6. Which two signs need to be interchanged to make the following equation correct?
$23+84 \div 14 \times 8-3=5$
A. $\div$ and -
B. + and $\times$
C. - and $\times$
D. - and +

Ans. (C)
7. Select the letter-cluster from among the given options that can replace the question
mark (?) in the following series.
FCC, UFH, OIS, LLX, FOC, ?
A. TRF
B. VSG
C. URH
D. WTH

Ans. (C)
8. Select the correct mirror image of the given figure when the mirror is placed at 'AB' as shown.

A.

B.

C.

D.


Ans. (B)
9. Seven friends, Subhi, Prince, Ketan, Vishal, Mahima, Krish and Naitik, are sitting around a circular table with their backs towards the centre. Subhi is sitting to the immediate right of Prince. Naitik and Krish are not sitting to the immediate left or right of Vishal. Vishal is sitting third to the left of Prince. Mahima is sitting to the immediate right of Vishal. Who is sitting third to the right of Prince?
A. Naitik
B. Krish
C. Ketan
D. Mahima

Ans. (C)
10. There are seven members, $B, C$, $D, E, F, G$ and $H$, in a family. $H$ is the only daughter-inlaw of $D$. $E$ is the sister of C. C is the only son of $F$, who is the wife of $D$. B and G are the sons of H . How is G related to F ?
A. Grandson
B. Brother
C. Father
D. Son

Ans. (A)
11. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow from the statements.

Statements:

1. All flowers are blue.
2. All blue are good.
3. No good is red.

Conclusions:
I. No red is a flower.
II. No red is a bus.
III. Some good are flowers.
IV. Some good are blue.
A. Only conclusions I, III and IV follow
B. Only conclusions I and III follow
C. All conclusions I, II, III and IV follow
D. Only conclusions I, II and IV follow
Ans. (C)
12. Among five boxes $A B C D$ and $E$ $B$ is thrice as heavy as $A$. $C$ is 40 kg heavier than E . D is three and a half times as heavy as E and C is five times as heavy as $A$. The weight of $E$ is 40 kg . Which object is the lightest of all and what is its weight?
A. B 50 kg

B. A 16 Kg
C. B 12 Kg
D. D 125 Kg

Ans. (B)
13. Select the option that is embedded in the given figure $(\mathrm{X})$ (rotation is NOT allowed).

(X)
A.

B.

C.

D.


Ans. (B)
14. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.
$j_{-} m b{ }_{-} a_{-} u_{-} b_{-} a d j_{-} m_{-} b$ _d
A. $u b \mathrm{~m} j \mathrm{mb} \mathrm{ub} \mathrm{a}$
B. $u b d j m b j b a$
C. ubdjmbuba
D. $u b d j m b u m a$

Ans. (C)
15. Which of the option figures when rotated $270^{\circ}$ anticlockwise and then $45^{\circ}$ clockwise will result in the given question figure?

A.

B.

C.

D.


Ans. (A)
16. Select the number from among the given options that can replace the question mark (?) in the following series.
28, 32, 41, 57, ?
A. 68
B. 82
C. 74
D. 90

Ans. (B)
17. Select the option that is related to the third number in the same way
as the second number is related to the first number and the sixth number is related to the fifth number.
3 : 17 :: 6: ? :: $9: 47$
A. 34
B. 36
C. 38
D. 32

Ans. (D)
18. In a certain code language, 'so it be' is written as 'lor kor nor', 'it is done' is written as 'zor kor tor', and 'be yourself' is written as 'nor xor'. How will 'so' be written in that language?
A. nor
B. $x o r$
C. lor
D. kor

Ans. (C)
19. In a certain code language, 'TANKER' is written as 'VCPMGT', how will 'SOCRATES' be written in that language?
A. UQETCVGU
B. UQETCWGU
C. UQFTCVHU
D. UQGTCVHU

Ans. (A)
20. Select the option that is related to the third term in the same way as the second term is
related to the first term.
UPRIGHT : PUVEKTH :: DESTROY : ?
A. EDWPVYO
B. EDPXNYO
C. EDWWUY
D. DEWPVOY

Ans. (A)
21. A cube of side 80 cm is painted yellow on all the faces and then cut into smaller cubes of sides 8 cm each. Find the number of smallest
cubes having all the three faces painted.
A. 32
B. 28
C. 8
D. 64

Ans. (C)
22. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.
A. MTAH
B. CJQY
C. HOVC
D. DKRY

Ans. (B)
23. Select the figure from among the given options that can replace the question mark (?) in the following series.

A.

B.

C.


D.


Ans. (C)
24. The sequence of fokling a piece of paper (figures i) and the manner in which the folded paper has been cut (figure ii) is shown in the following figures. Select the option that would most closely resemble the unfolded form of figure (ii).

A.

B.

C.

D.


Ans. (B)
25. In a certain code language, 'PARK' is coded as '3749', and 'RACE' is coded as '4762'. How will 'CARE' be coded in that language?
A. 6724
B. 7642
C. 7624
D. 6742

Ans. (D)
General Awareness

1. In December 2020, became the first country in the world to approve sale of labgrown chicken products.
A. Singapore
B. Taiwan
C. Vietnam
D. japan

Ans. (A)
2. Which of the following Amendments of the Constitution of India gave the status of state to Goa?
A. 52nd Amendment
B. 56th Amendment
C. 59th Amendment
D. 48th Amendment

Ans. (B)

3. Who among the following female wrestlers won the Ukraine Wrestling Tournament in February 2021?
A. Kavita Devi
B. Sakshi Malik
C. Babita kumari
D. Vinesh phogat

Ans. (D)
4. What is the emigration of a significant proportion of a country's highly skilled, highly educated professional population to other countries offering better economic and social opportunities called?
A. Carrying capacity
B. Brain drain
C. Demographic transition
D. Closed population

Ans. (B)
5. Which of the following laws deduces the expression for the force between two stationary point charges in vacuum or free space?
A. Lenz's Law
B. Coulomb's Law
C. Gauss' Law
D. Ohm's Law

Ans. (B)
6. What is the repo rate given by the Reserve Bank of India's (RBI) Monetary Policy Committee (MPC) as on 7 April 2021?
A. $2 \%$
B. $4 \%$
C. $3 \%$
D. $5 \%$

Ans. (B)
7. From which of the following English words is the name 'Bhangra' derived in the context of Bhangra Dance?
A. Hemp
B. Rhythm
C. Style
D. Movement

Ans. (B)
8. Which of the following dwarf planets lies in the main asteroid belt?
A. Eris
B. Makemake
C. Ceres
D. Haumea

Ans. (C)
9. $\qquad$ is concerned with constructing records of past climates and climatic events by analysis of tree growth characteristics, especially growth rings.
A. Bioclimatology
B. Historical-climatology
C. Geo climatology
D. Dendroclimatology

Ans. (D)
10. Which of the following revolutionaries was arrested by the British as an accused in the Alipore Bomb Conspiracy Case?
A. Kanailal Dutta
B. Rajendra Lahiri
C. Roshan singh
D. Ashfaq Ullah khan

Ans. (A)
11. What was the first name of the Mughal Emperor Babur?
A. Hasanuddin
B. Giasuddin
C. Zahiruddin
D. Qaseemuddin

Ans. (C)
12. As of April 2021, who among the following is the only Indian long jumper to have qualified for the Tokyo Olympics 2021?
A. Virsa singh
B. TC Yohannan
C. Sreeshankar Murali
D. Sanjay Kumar Rai

Ans. (C)
13. In which year had India's ratio of public debt to GDP gone up to a record 84.2\%?
A. 1991
B. 1999
C. 2003
D. 2001

Ans. (C)
14. Who among the following is the author of the novel ' Q and A '?
A. Muchkund Dubey
B. MK Rasgotra
C. JN Dixit
D. Vikas Swarup

Ans. (D)
15. Who among the following became the first Indian to win the Miss Deaf World title?
A. Raghavi Shankar
B. Vidisha Baliyan
C. Arunima Sinha
D. Preethi Srinivasan

Ans. (B)
16. An amendment to the Hindu Succession Act, 1956 was passed in the year $\qquad$ .
A. 2012
B. 2005
C. 2010
D. 2008

Ans. (B)
17. Which of the following elements is NOT suitable for the fabrication of a light emitting diode structure?
A. Gallium phosphide
B. Indium gallium nitride
C. Germanium
D. Gallium arsenide

Ans. (C)
18. As per the Economic Survey, 2020, how many banks of India are there in the list of the top global 100 ?
A. None
B. One
C. Three
D. Two

Ans. (B)
19. What was the age in years of the revolutionary Bhagat Singh when he was hanged till death?
A. 20
B. 23
C. 30
D. 26

Ans. (B)
20. Which of the following Sustainable Development Goals (SDG) seeks to 'Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss'?
A. SDG 12
B. SDG 7
C. SDG 17
D. SDG 15

Ans. (D)
21. Which of the following is a characteristic of permanent tissue?
A. Cells divide repeatedly
B. Inorganic inclusions are absent
C. Intercellular spaces are present
D. Vacuoles are absent

Ans. (C)
22. In which of the following years was an Act to provide for the reorganisation of the states of India and for matters connected therewith enacted?
A. 1947
B. 1956
C. 1959
D. 1962

Ans. (B)
23. Which of the following statements is/are correct?

I. Karnataka is the largest producer of coffee in India.
II. Arabica is a variety of coffee.
III. The Arabica variety initially brought from Mexico is produced in India.
A. I, II and III
B. Only II and III
C. Only III
D. Only I and II

Ans. (D)
24. In which city of Gujarat will you find the Uparkot Buddhist Caves?
A. Bhavnagar
B. Vadodara
C. Junagadh
D. Anand

Ans. (C)
25. Camellia sinensis is a plant that produces $\qquad$ .
A. tea
B. coffee
C. jute
D. sugarcane

Ans. (A)

## Quantitative Aptitude

1. The given histogram represent the marks of students in Mathematics test of a certain class. The total number of students is 350 and the maximum marks of the test are 200.
Study the graph and answer the question that follows.


What is the class average (correct up to one place of decimal) of mathematics test?
A. 119.3
B. 123.7
C. 115.8
D. 127.3

Ans. (A)
2. In a quadrilateral $A B C D$, the bisectors of $\angle \mathrm{C}$ and $\angle \mathrm{D}$ meet at point E. If $\angle C E D=57^{\circ}$ and $Đ A=$ $47^{\circ}$, then the measure of $\angle \mathrm{B}$ is:
A. 47
B. 67
C. 77
D. 57

Ans. (B)
3. The value of $40 \div 5$ of $2 \times[18 \div 6 \times(12-9)$ of $5-(3-8)] \div 25$
is:
A. 5
B. 7
C. 8
D. 4

Ans. (C)
4. A can complete $25 \%$ of a work in 15 days, He works for 15 days and then $B$ alone finishes the remaining work in 30 days. In how many days will $A$ and $B$ working together finish $50 \%$ of the same work?
A. 24
B. 20
C. 12
D. 25

Ans. (C)
5. $A$ and $B$ start a business. $A$ invests $33 \frac{1}{3} \%$ of the total capital and $B$ invests the remaining. If the total profit at the end of the year is Rs1,62,000, then B's share (in Rs.) is:

## START FREE TRIAL

A. 1,08,000
B.1,12,000
C. $1,20,000$
D. 54,000

Ans. (A)
6. A shopkeeper marks his goods at a price $20 \%$ higher than their cost price and allows $10 \%$ discount on every item, Find his gain percentage.
A. $10 \%$
B. $10.5 \%$
C. $9 \%$
D. 8\%

Ans. (D)
7. The following bar graph shows the number of youth (in lakhs) and the number of employed youth (in lakhs) in 5 states A, B, C, D and E.
In which state(s) is the number of youth more than the average number of youth in the five states?

A. A
B. A, C
C. A, C, D,E
D. A, C, D

Ans. (B)
8. Six bells begin to toll together and toll, respectively, at intervals of 3, 4, $6,7,8$ and 12 seconds. After how many seconds, will they toll together again?
A. 167
B. 168
C. 176
D. 186

Ans. (B)
9. The angle of elevation of the top of a tall building from the points M and N at the distances of 72 m and 128 m , respectively, from the base of the building and in the same straight line with it, are complementary. The height of the building (in $m$ ) is:
A. 84
B. 96
C. 80
D. 90

Ans. (B)
10. The simple interest on a certain sum is one-eighth of the sum when the number of years is equal to half of the rate percentage per annum. Find the simple interest (in Rs.) on Rs. 15,000 at the same rate of simple interest for 8 years.
A. 5,800
B. 5,000
C. 6,000
D. 5,250

Ans. (C)
11. What is the average of all the prime numbers between 70 and 90 ?
A. 80
B. 78.66
C. 79
D. 81.6

Ans. (C)
12. In $\triangle A B C, \angle A=88^{\circ}$, If I is the incentre of the triangle, then the measure of $\angle$ BIC is:
A. 112
B. 134
C. 56
D. 68

Ans. (B)
13. If $a^{2}+b^{2}+49 c^{2}+18=2(b-$ $28 c-a)$ then the value of $(a+b-$ 7c) is:
A. 4

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B. 3
C. 2
D. 1

Ans. (A)
14. The breakup of the total number of employees of a company working in different offices ( $A$ to $E$ ), in degrees, is given in the pie chart.
Total number of employees $=2400$.


In which office is the number of employees 600?
A. E
B. A
C. C
D. D

Ans. (D)
15. The value of $1+\sqrt{\frac{\cot \theta+\cos \theta}{\cot \theta-\cos \theta}}$, if $0^{\circ}<\theta<90^{\circ}$, is equal to:
A. $1-\sec \theta+\tan \theta$
B. $1-\sec \theta-\tan \theta$
C. $1+\sec \theta-\tan \theta$
D. $1+\sec \theta+\tan \theta$

Ans. (D)
16. If the volume of a sphere is equal to that of a cylinder having the same radius, then find the ratio of the radius to the height of the cylinder.
A. 1:2
B. $2: 3$
C. $3: 4$
D. 3 : 5

Ans. (C)
17. The value of $\left(\frac{1-\cot \theta}{1-\tan \theta}\right)^{2}-1$ when
$0^{\circ}<\theta<90^{\circ}$, is equal to:
A. $\cos ^{2}-1$
B. $\sec ^{2} \theta+1$
C. $\cot ^{2} \theta-1$
D. $\sin ^{2} \theta-1$

Ans. (C)
18. Sides $A B$ and $A C$ of $\triangle A B C$ are produced to points $D$ and $E$, respectively, The bisectors of $\angle \mathrm{CBD}$ and $\angle B C E$ meet at p. If $Đ A=78^{\circ}$, then the measure of $\angle \mathrm{P}$ is:
A. 51
B. 61
C. 55
D. 56

Ans. (A)
19. $A$ and $B$ started their journey from $X$ to $Y$ and $Y$ to $X$, respectively, After crossing each other, $A$ and $B$ completed remaining parts of their journey in $6 \frac{1}{8}$ hour and 8 hour, respectively. If the speed of $A$ is 32 $\mathrm{km} / \mathrm{h}$, then the speed, in $\mathrm{km} / \mathrm{h}$, of $B$ is:
A. 21
B. 28
C. 30
D. 25

Ans. (B)
20. The following bar chart shows the number of students enrolled in two Summer Camps A and B from 2014 to 2019.
Study the chart carefully and answer the question that follows.
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The number of students enrolled in Camp A in 2016 and 2019 together is what percentage of the number of students enrolled in Camp B in 2015 and 2017 together?
A. $64 \%$
B. $75 \%$
C. $60 \%$
D. $80 \%$

Ans. (A)
21. A cyclic quadrilateral $A B C D$ is drawn in a circle with centre $O, A$ and $C$ are joined to $O$, If $Đ A B C=2 p$ and ĐADC $=3 p$, what is the measure (in degrees) of the $\angle$ AOC reflex?
A. 200
B. 245
C. 210
D. 216

Ans. (D)
22. If 8 A 5146 B is divisible by 88 , then what is the value of $B-A$ ?
A. 0
B. -1
C. 1
D. 2

Ans. (C)
23. If $a+b+c=6, a^{2}+b^{2}+c^{2}=$ 32 , and $a^{3}+b^{3}+c^{3}=189$, then the value of abc - 3 is:
A. 2
B. 3
C. 1
D. 0

Ans. (D)
24. The cost prices of two articles $A$ and $B$ are in the ratio 4 : 5, While selling these articles, the shopkeeper gains $10 \%$ on article $A$ and $20 \%$ on article B and the difference in their selling prices is Rs.480. The difference in the cost price (in Rs.) of articles $B$ and $A$ is:
A. 250
B. 300
C. 400
D. 350

Ans. (B)
25. $\frac{11}{5}$ of a number $A$ is $22 \%$ of a number $B$. The number $B$ is equal to $2.5 \%$ of a third number $C$, If the value of $C$ is 5500, then the sum of $80 \%$ of $A$ and $40 \%$ of $B$ is:
A. 88
B. 75
C. 48
D. 66

Ans. (D)

## English Comprehension

1. Select the most appropriate option to fill in the blank.
Are you looking forward $\qquad$ Nikhil again?
A. seeing
B. to see
C. to be seeing
D. to seeing

Ans. (D)
2. Select the option that can be used as a one-word substitute for the given group of words.
A fictional being from another world
A. Stranger
B. Native
C. Alien
D. Foreigner

Ans. (C)

3. Select the option that can be used as a one-word substitute for the given group of words.
Showing great attention to detail and correct behaviour
A. Punctual
B. Zealous
C. Punctilious
D. Disciplined

Ans. (C)
4. Select the option that expresses the given sentence in passive voice.
He opened the door for his mother.
A. The door was opened by him for his mother.
B. The door was open by him for his mother.
C. The door had been opened by him for his mother.
D. The door is opened by him for his mother.
Ans. (A)
5. Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A. The interest rates offered depends on the bank, deposit amount and the tenure you choose.
B. It not only helps you to save money but also helps you to earn a substantial interest on it.
C. One of the best ways to secure your money is by investing in fixed deposits.
D. Under the fixed deposit scheme, the depositor deposits the money only once at the time of opening the account.
A. CDBA
B. ADCB
C. ACBD
D. CABD

Ans. (A)
6. Select the most appropriate meaning of the given idiom.
On the wane
A. On the way
B. On the top
C. On the decline
D. On the rise

Ans. (C)
7. Select the most appropriate ANTONYM of the given word.
Prey
A. Predator
B. Sufferer
C. Loot
D. Game

Ans. (A)
8. Select the INCORRECTLY spelt word.
A. Whitan
B. Enlighten
C. Hasten
D. Brighten

Ans. (A)
9. Select the most appropriate meaning of the given idiom.
A long shot
A. A correct prediction
B. A perfect aim
C. Very profitable
D. Little chance of success

Ans. (D)
10. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
This is / too grave sin / to be / pardoned.
A. pardoned
B. too gave sin
C. This is
D. to be

Ans. (B)
11. Select the correct active voice of the given sentence.

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The poems of great English poets are being translated into other languages.
A. They were translating the poems of great English poets into other languages.
B. They are translating the poems of great English poets into other languages.
C. They have translated the poems of great English poets into other languages.
D. They translated the poems of great English poets into other languages.
Ans. (B)
12. The following sentence has been divided into parts. One of them may contain a grammatical error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.
Antique diamond necklace / was stolen / from the museum.
A. was stolen
B. from the museum
C. Antique diamond necklace
D. No error

Ans. (C)
13. Select the most appropriate synonym of the given word.
FLUKE
A. Policy
B. Plan
C. Chances
D. Contract

Ans. (C)
14. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'. The investigation revealed that both of they had given false information to obtain the certificates.
A. No substitution required
B. reveal that them both
C. reveals that how they both
D. revealed that both of them

Ans. (D)
15. Select the option that expresses the given sentence in reported speech.
She said, "It is too good to be true."
A. She said it were too good to be true.
B. She said that it was too good to be true.
C. She is saying that it is good to be true.
D. She says that it is too good to be true.
Ans. (B)
16. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
She persisted / to doing / what she wanted / despite opposition
A. to doing
B. what she wanted
C. She persisted
D. despite opposition

Ans. (A)
17. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.
The unseasonal rain/ caused a lot of damage/ to the crops.
A. The unseasonal rain
B. to the crops
C. No error
D. Caused a lot of damage

Ans. (C)
18. Select the most appropriate ANTONYM of the given word.
Optional

A. Voluntary
B. Compulsory
C. Arbitrary
D. Elective

Ans. (B)
19. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.
I have been wondering at taking skating as a hobby.
A. on taking to
B. about taking up
C. to take up
D. No improvement required

Ans. (B)
20. Select the most appropriate synonym of the given word.
Inscrutable
A. Incredible
B. Indelible
C. Inevitable
D. Inexplicable

Ans. (D)

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Marie was born in 1867 in Warsaw, Poland. At an (1) $\qquad$ age, she displayed a brilliant mind and a (2) $\qquad$ personality. Her great exuberance for learning (3) her to study further. However, she became (4) $\qquad$ when she learned that the university was closed (5) $\qquad$ women. Determined to receive a higher education, she joined a French university.
21. Select the most appropriate option to fill in blank no.1.
A. early
B. ignorant
C. infant
D. young

Ans. (A)
22. Select the most appropriate option to fill in blank no. 2.
A. bruised
B. blithe
C. brutal
D. bloated

Ans. (B)
23. Select the most appropriate option to fill in blank no . 3
A. prompted
B. promised
C. proposed
D. projected

Ans. (A)
24. Select the most appropriate option to fill in blank no. 4.
A. distinguished
B. dishevelled
C. disgruntled
D. disfigured

Ans. (C)
25. Select the most appropriate option to fill in blank no. 5.
A. at
B. from
C. to
D. by

Ans. (C)

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