## SSC MTS 15th July 2022 Shift-1

## English Language

1. Select the most appropriate option to fill in the blank.

He has a high paying job, $\qquad$ he never seems to have any money

A yet
B by
C from

D so
Answer: A
2. Select the most appropriate meaning of the given idiom.

That ship has sailed

A To arrive early
B To reach safely
C Too late to do something
D Too extreme to follow
Answer: C
3. Select the option that can be used as a one-word substitute for the given group of words.

One who has a long experience of any occupation

A Reverent
B Practitioner
C Staunch
D Veteran

## Answer: D

4. Select the correctly spelt word.

A Entirely
B Entierely
C Entierly
D Entyrely
Answer: A
5. Select the option that can be used as a one-word substitute for the given group of words.

An agreement between enemies or opponents to stop fighting, arguing, etc., for a certain period of time

A Unanimous

B Graft

C Truce

D Surplus
Answer: C
6. Parts of the given sentence have been given as options. 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.
It feels greatly to be with you at this ceremony.

A at this ceremony

B to be with you
C It feels greatly
D No error

## Answer: C

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

## One who knows all

A Topper

B Bully
C Anarchist

D Omniscient
Answer: D
8. Select the most appropriate option to fill in the blank.

Yesterday, after a nice walk, we $\qquad$ to sit on the bench, watch the birds, and rest for a while.

A decided

B decide

C decides

D deciding
Answer: A
9. Select the most appropriate option to fill in the blank.

The $\qquad$ of directors will decide the penalty.

A bowed
B braid
C bored
D board
Answer: D
10. Select the most appropriate option to fill in the blank.

Accuracy rates of facial recognition algorithms are $\qquad$ low in the case of minorities, women and children, as demonstrated in multiple studies across the world.

A smoothly
B Carelessly
C Particularly
D Beautifully

## Answer: C

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

I prefer to listen to relaxing and $\qquad$ music when meditating.

A soothing
B abrading
C fretting


D tormenting
Answer: A
12. Select the most appropriate synonym of the given word. Erring

A Blundering

B Tidy
C Sloppy
D Flawless
Answer: A
13. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.
Carrying an umbrella is not at all a good idea during thunderstorms.

A Carried an umbrella

Carry an umbrella

C No improvement required
D Carrying a umbrella
Answer: C
14. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. The earthy / fragrance of soil / after a first rain / is always refreshing.

A is always refreshing
B fragrance of soil
C The earthy
D after a first rain

## Answer: D

15. Select the correctly spelt word.

A Unrravel
B Equilibrium
C Compeling

16. Select the most appropriate meaning of the highlighted idiom. My mother is in raptures over her new stove.

A completely dissatisfied with
B extremely delighted
C extremely angry
D working vigorously

## Answer: B

17. Select the most appropriate option to fill in the blank. The reality of the effects of rising aviation industry emissions on climate change has been known for decades, yet the industry and its emissions has continued to grow without $\qquad$ _.

A easiness

B neglect
C constraint

D comfort
Answer: C
18. Select the most appropriate ANTONYM of the given word.

Abundant

A Surplus

B Scarce

C Brilliant

D Rich

## Answer: B

19. 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.

He got afflicted with the disease / when he was / a teenager.

A No error

B He got afflicted with the disease

C a teenager
D when he was
Answer: A
20. Select the most appropriate synonym of the given word. Penniless

A Broke

B Reckless

C Cranky
D Wealthy

## Answer: A

Instructions [21-25]
In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Anthony Abraham, a 34-year-old crane driver, (1) $\qquad$ managed to get out of the way of falling steel. Turning around, he could hardly believe the (2) $\qquad$ scene that lay before him. Girders were (3) $\qquad$ on top of the crane in a haphazard fashion, like gigantic pick up sticks. All he could see of the machine was its rear wheels and a section of what had been the cab. Abraham (4) $\qquad$ to the cab, shouting his friend George Burns' name. By then, three other iron workers had reached the (5) $\qquad$ of the carnage. One of them yelled, 'George, can you hear me?' Over the din of the diesel engine, a strained voice responded.

## 21. Select the most appropriate option to fill in blank no. 1.

A substantially
B simultaneously
C barely
D rarely
Answer: C
22. Select the most appropriate option to fill in blank no. 2.

A criminal

B crooked
C pleasant
D horrible

## Answer: D

23. Select the most appropriate option to fill in blank no. 3.

A dived
B piled


C duped
D riled
Answer: B

24. Select the most appropriate option to fill in blank no. 4.

A shoved

B raced
C halted
D assisted

## Answer: B

25. Select the most appropriate option to fill in blank no. 5 .

A sign

B trace

C scene
D sight
Answer: C

## General Intelligence and Reasoning

26. Select the option that can replace the question mark (?) in the following series.

NB, OA, PZ, QY, ?

A RX

B WR

C RW

D RS
Answer: A
27. Select the figure from among the given options that can replace the question mark (?) in the following series.


A


B


C


D


Answer: B
28. 6 persons $S, O, K, U, T$ and $A$ are sitting around a circular table facing towards the centre (not necessarily in the same order). $S$ is sitting second to the right of A . Only one person is sitting between O and U . T is sitting to the immediate right of K . Only two persons are sitting between 0 and $A$.
Who is sitting third to the left of $K$ ?

A U

B A
C S
D T

## Answer: A

29. Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
REAS : SGDW :: ABRO : BDUS :: MOBI : ?

A NPEM

B LQEM

C NQEM
D NPDM
Answer: C
30. There are eight persons, A, B, C, D, E, F, G and $H$, all having different weights. Only two persons are lighter than $F$. $F$ is heavier than $A$ but lighter than $B$. $D$ is lighter than $E$ but heavier than $G . H$ is lighter than $A . C$ is heavier than $E . C$ is not the heaviest person. The weights of the second heaviest and the second lightest persons are 78 kg and 48 kg , respectively.
How many persons are lighter than the person who is just lighter than D?

A One

B Three

C Four

D Two
Answer: B
31. 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(s) from the statements.

Statements:
All cricketers are sportspersons.
Some players are sportspersons.
Conclusions:
I. No cricketer is a player.
II. Some cricketers are players.

A Only conclusion I follows
B Only conclusion II follows

C Either conclusion I or II follows

D Both conclusions I and II follow

## Answer: C

32. 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(s) from the statements.

Statements:
I. No $X$ is W .
II. Some $R$ are $X$.

Conclusions:
I.Some W are not X .
II. No W is R.

A Both conclusions I and II follow

B Only conclusion II follows
C Only conclusion I follows
D Neither conclusion I nor II follows

## Answer: C

33. If '-' stands for ' $\times$ ', ' + ' stands for' $\div$ ' and ' $\div$ ' stands for -1 ', then what will be the value of $812+58-65+26-2=$ ?

A 70

B 90

C 30

D 50
Answer: A
34. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number. 232 : 21 :: 343 : 30 :: 157 : ?

A 42

B 33

C 36

D 39
Answer: D
35. In a certain code language, if mustard is called fruit, fruit is called potato, potato is called burger, burger is called flower, and flower is called rice, then what is rose?

A potato
B rice

D
fruit
Answer: B
36. Select the correct mirror image of the given figure when the mirror is placed at the right side.


A


B


C


D


Answer: B
37. Select the number from among the given options that can replace the question mark (?) in the following series. 100, 98, 104, 92, 112, ?

A 108

C 72
D 64
Answer: B
38. Select the correct mirror image of the given figure when the mirror is placed at $A B$ as shown.


A


B


C


Answer: B
39. Which of the mathematical signs should be interchanged in the given equation to
make it mathematically correct?
$12+66 \div 11-4 \times 91=159$

A $\div$ and $\times$
B + and -
C + and $\times$

D + and :
Answer: C
40. Select the figure from the options that can replace the question mark (?) and complete the given pattern.


A


B


C


D


Answer: B
41. Select the number from among the given options that can replace the question mark (?) in the following series. $39,78,117,156, ?, 234$

A 205

B 195
C 185
D 175
Answer: B
42. Select the figure from among the given options that can replace the question mark (?) in the following series.


A


B


## 00

C



Answer: B
43. Select the option in which the given figure is embedded (rotation is not allowed).


A


B


C


D


Answer: A
44. Select the option that is related to the fifth letter-cluster in the same way as the second
letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster. BDF : ACE :: NPR : MOQ :: VXZ : ?

A UVY
B TUW
C UWY

D WUY
Answer: C
45. In a certain code language, 'TIK' is coded as '40', 'PDM' is coded as ' 33 '. How will 'RUG' be coded in that code language?

A 47
B 44
C 46
D 45
Answer: C
46. 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.
KTM : PGN :: ABC : ?

A ZWY

B ZYW
c $Z Y X$
D ZXY
Answer: C
47. In a certain code language, 'SHAPE' is coded as 'VKDSH'. How will 'MODEL' be coded in that language?

A OPFGN
B PRGHO

C QRHIP
D CFAHW
Answer: B
48. In a certain code language, 'ACADEMIC' is written as 'AACEDIMC', 'ABSTRACT' is written as 'ASBRTCAT', and 'ACCURACY' is written as 'ACCRUCAY'. How will 'ABACAS' be written in that language?

A ABCAAS

B
AAABCS

C ABAACS

D AABACS
Answer: A
49. Seven persons - G, M, R, K, L, P and C-are sitting around a circular table facing the centre. The following information is known about them. $G$ is to the immediate right of $K$, who is third to the left of $C$. $R$ is adjacent to both $C$ and $P$. $M$ is not adjacent to $G$. Who is third to the left of M?

A C
B L
C R
D G
Answer: A
50. Select the option in which the two numbers are related in the same way as are the numbers in the given number-pair. 248:428

A 428:824
B 268:628


C $462: 264$

D 284:842
Answer: B


## Numerical Aptitude

51. The difference between the compound interest and the simple interest on a certain sum of money at $10 \%$ per annum for 2 years is ₹ 200 . What is the sum of money, if in the case of compound interest, interest is compounded annually?

A ₹ 25,000

B ₹ 15,000

C ₹ 12,000
D ₹ 20,000
Answer: D
52. $P=25 \times 3^{8}$ and $Q=2^{3} \times 3^{K}$. If the highest common factor of $\mathbf{P}$ and $\mathbf{Q}$ is $2^{3} \times 3^{3}$, then what is the value of K ?

A 1

B
2

C 3

D 5
Answer: C
53. The following bar graph shows the percentage of students from five different colleges who are selected for a maths quiz.


The ratio of the number of students in colleges $P, Q, R, S$ and $T$ is $2: 4: 3: 1: 3$, respectively. If 25 students are selected from college $P$, then what is the total number of students selected for the quiz?

A 172

B 180

C 240

D 210

## Answer: C

54. A bus can travel $20 \%$ faster than a scooter. Both start from point Pat the same time, and reach point $\mathrm{Q}, \mathbf{6 0} \mathrm{km}$ away from point $P$, at the same time. On the way, however, the bus lost about 10 minutes while stopping at bus stations, while the scooter did not stop anywhere. What is the speed of the bus?

A $68 \mathrm{~km} / \mathrm{h}$

B $80 \mathrm{~km} / \mathrm{h}$

C $60 \mathrm{~km} / \mathrm{h}$

D $\quad 72 \mathrm{~km} / \mathrm{h}$
Answer: D
55. $15 \%$ of the marked price of an item is equal to $25 \%$ of its cost price. If a discount of $25 \%$ is given on the sale of the item, then what will be the profit percentage?

A $22.5 \%$

B $20 \%$

C $17.5 \%$

D $25 \%$
Answer: D
56. In an election between 2 candidates, the winning candidate gets 2940 valid votes, while the losing candidate gets $40 \%$ of the valid votes. If $2 \%$ of the votes polled were declared invalid, then what is the total number of votes polled?

A 4500
B 5000
C 6000

D 5500

## Answer: B

57. What is the height of a cylinder whose radius of base is 12 cm and volume is $19008 \mathrm{~cm}^{3}$ ? [Use $\pi={ }_{7}^{22}$ ]

A 6 cm
B $\quad 24 \mathrm{~cm}$
C 38 cm
D 42 cm

## Answer: D

58. When 8 is added to the numerator of a fraction and 12 is added to its denominator, the fraction becomes ${ }_{2}^{1}$. When 2 is subtracted from its numerator and denominator, the fraction becomes 8 . Find the original fraction.

A $\quad 99$
B $\begin{array}{r}3 \\ 10\end{array}$

C $\quad 4$
D $\begin{gathered}5 \\ 11\end{gathered}$
Answer: B
59. If on a certain sum, the simple interest for 4 years is $₹ 2,000$, then what is the simple interest for 6 years on the same sum?

A ₹ 3,500

B ₹ 3,000

C ₹ 4,000
D ₹ 2,800

## Answer: B

60. $P$ is increased successively by $15 \%$ and $20 \%$ to get $Q$. If $P=200$, then what is the value of $Q$ ?

A 266

B 284

C 276
D 292

## Answer: C

61. Vinay purchased two bottles for a total of ₹ 100 , and he sells these two bottles at the rate of $₹ 100$ per bottle. What is the overall profit percentage that Vinay had on selling the two bottles?

A $50 \%$

B $100 \%$

C $200 \%$
D $80 \%$

## Answer: B

62. The average of a set of 15 numbers is 41 . Five numbers $21,24,39,47$ and 97 are removed from the above set. What will the average of the remaining 10 numbers?

A 39.2
B 37.6

C $\quad 38.7$

D 36.4
Answer: C

$$
17-8 \times 5+4 \times 3
$$

63. What is the value of $\begin{gathered}17-8 \times 5+4 \times 3 \\ 5 \times 3 \div 6+2 \times 4\end{gathered}$ ?

A $\quad{ }^{-25}$

B $\quad \begin{gathered}-22 \\ 21\end{gathered}$

C $\quad{ }^{-5}$
D $\quad \begin{gathered}-8 \\ 7\end{gathered}$
Answer: B
64. The selling price of a desktop is 9 times of the profit earned on selling this desktop. What is the profit percentage?

A 10\%

B 12.5\%

C 11.11\%

D $8.33 \%$

## Answer: B

65. $A, B$ and $C$ together can do a piece of work in 6 days. $A$ and $B$ together can do the same work in 12 days. $B$ alone can do the same work in 18 days. In how many days can $A$ and $C$ together do the same work?

A 9 days
B 10.5 days
C 8 days

D 7.5 days

## Answer: A

66. A can do a piece of work alone in 40 days. $A$ and $B$ together can do the same work in 10 days. $C$ is $50 \%$ less efficient than $B$. In how many days can $A$ and $C$ together complete the same work?

A 20 days
B 24 days
C 16 days
D 12 days
Answer: C
67. What will be the average of all the prime numbers between 9 and 22 ?

A 14
B 15

C 10
D 12
Answer: B
68. 5 times of the perimeter of a square is 600 cm . What will be the area of this square?

A $900 \mathrm{~cm}^{2}$

B $1150 \mathrm{~cm}^{2}$

C $750 \mathrm{~cm}^{2}$

## Answer: A

69. What is the average of the first 10 prime numbers?

A 10.9
B 12.9
C 11.9

D 13.9
Answer: B
70. The value of $(256)^{\frac{1}{2}}-(1331)^{\frac{1}{3}}+23 \times 13$ is:

A 304
B 305

C 309
D 302
Answer: A
71. The following pie chart shows the amounts of money spent under different heads by a household as percentages of the total money spent by the household on these 7 heads taken together.


If the total money spent on these 7 heads is $₹ 2,300$, then what is the amount spent on E5?

A ₹483

B ₹253
C ₹391
D ₹299

## Answer: C

72. A leaves station $P$ at 8:00 a.m. and reaches station $Q$ at 11:00 a.m. $B$ leaves station $Q$ at 9:00 a.m. and reaches station $P$ at 11:00 a.m. At what time will they cross each other?

A 10:00 a.m.
B 10:05 a.m.
C 9:48 a.m.
D 9:52 a.m.
Answer: C
73. The following table shows the number of students of class 6 , class 7 , class 8 , class 9 and class 10 , in schools $A, B$ and $C$.

| Class | Class 6 | Class 7 | Class 8 | Class 9 | Class 10 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| School A | 25 | 45 | 35 | 55 | 80 |
| School B | 65 | 45 | 55 | 45 | 20 |
| School C | 35 | 65 | 40 | 25 | 30 |

What is the total number of students in class 9 and class 10 , taken together, in school $B$ ?

A 55

B 100

C 135
D 65
Answer: D
74. Two numbers are, respectively, $25 \%$ and $30 \%$ less than a third number. What is the ratio of the first two numbers, in the order mentioned in the previous statement?

A 6:5
B $5: 6$

C 14:15
D 15: 14
Answer: D
75. The area of a square is $144 \mathrm{~cm}^{2}$. What is the length of each of its diagonals?

A $6 \sqrt{2} \mathrm{~cm}$

B $12 \sqrt{2} \mathrm{~cm}$
C $14 \sqrt{2} \mathrm{~cm}$
D $\quad 12 \mathrm{~cm}$

Answer: C

## General Awareness

76. Which of the following animals does NOT have a backbone?

A Frog

B Human
C Spider

D Pigeon
Answer: C
77. According to the fundamental duties given in the Indian Constitution, it shall be the duty of every citizen of India to uphold and protect the sovereignty, $\qquad$ of India.

A liberty and equality
B unity and integrity
C equality and fraternity
D spirituality and unity
Answer: B
78. Which of the following state governments announced a four-year mentorship programme called 'Project Arohan', to provide guidance to students and improve their skills, in February 2022?

A Assam

B Uttar Pradesh

C Karnataka
D Himachal Pradesh
Answer: A
79. The remains of the dead plants and animals trapped in the layers of rocks are called $\qquad$ _.

A manures

B moulds

C fossils

D remnants
Answer: C
80. Who won the men's singles title in Australian Open 2022?

A Rafael Nadal

B Stefanos Tsitsipas
C Matteo Berrettini
D Daniil Medvedev
Answer: A
81. What is speed?

A It is the distance covered by an object in a unit time.

B It is the velocity of an object per unit time.
C It is the force applied on covering a unit distance.

D It is the acceleration of an object per unit time.
Answer: A
82. The Census of India provides us with information regarding $\qquad$ _.
industrial production

B pollution
C food security
D the population
Answer: D
83. Which of the following financial institutions of India protects the interests of the investors and facilitates the functioning of the stock market intermediaries?

A Small Industries Development Bank of India(SIDBI)
B India Infrastructure Finance Company Ltd (IIFCL)
C National Housing Bank (NHB)
D Securities and Exchange Board of India (SEBI)
Answer: D
84. Which of the following novels is based on the Member of Parliament (India), Phoolan devi, and written by the author Roy Moxham?

A Outlaw: India's Bandit Queen and Me
B Lilavati's Daughters
c Spy Princess

D The Woman Who Knew Infinity

## Answer: A

85. Ustad Allarakha Qureshi, also known as Alla Rakha, was associated with which musical instrument?

A Piano
B Tabla

C Sarod

D Flute
Answer: B
86. Where does the Eastern Coastal Plain of India lie?

A Between Diu and Kerala
B Between the Eastern Ghats and the Bay of Bengal
C Between the Gulf of Cambay and Cape Comorin
D Between Maharashtra and Kerala

## Answer: B

87. Which of the following persons was appointed as the Commissioner of Delhi Police in July 2021?

A Kiran Bedi

B Rakesh Asthana

C Athar Aamir Khan
D Tina Dabi
Answer: B
88. The $\qquad$ is an Act of the Parliament of the United Kingdom that partitioned British India into two new independent dominions of India and Pakistan in 1947.

A Industrial Disputes Act
B Government of India Act
C Indian Independence Act
D Rowlatt Act
Answer: C

A 1531

B 1527

C 1529
D 1525

## Answer: B

90. Ancient Harappan site 'Lothal' was found in which state of India?

A Gujarat

B Rajasthan

C Maharashtra

D Madhya Pradesh

## Answer: A

91. With which of the following Indian classical dance forms was T Balasaraswati associated?

A Kathak

B Kathakali


C Bharatanatyam

D Manipuri

## Answer: C

92. In which year did Mahatma Gandhi first introduce a nationwide satyagraha in India?

A 1915

B 1921

C 1919

D 1916
Answer: C
93. Recommended Dietary Allowances $=$ ?

A Balanced diet - Extra nutrients

B Requirements + Margin of safety
C Extra nutrients

D Intermittent fasting + Extra nutrients
Answer: B
94. Which of the following sports was NOT played at the 2020 Summer Olympic Games (played in 2021)?

A Cricket
B Shooting
C Football
D Hockey
Answer: A
95. As of April 2022, amongst others, Legislative Councils are present in the states of $\qquad$ .

A Meghalaya, Punjab and Goa

B Uttar Pradesh, Bihar and Maharashtra
C Chhattisgarh, Delhi and Goa
D Tamil Nadu, West Bengal and Gujarat
Answer: B
96. Who among the following was the founder of the Shunga Dynasty ( 185 BC - 73 BC) ?

A Bhagabhadra
B Agnimitra

C Vasumitra

D Pushyamitra
Answer: D
97. Which famous Indian Kathak dancer received the 'Padma Vibhushan' in 1986?

A Rukmini Devi Arundale
B Mallika Sarabhai
C Guru Bipin Singh
D Pandit Birju Maharaj
Answer: D
98. The Festival of Salhesh is celebrated in the state of:

A Tamil Nadu
B Punjab

D Bihar

## Answer: D

99. When was the latest census conducted in India?

A 2021

B 2005

C 2001

D 2011
Answer: D
100. Which of the following neighbours of India has the highest population density?

A Bangladesh
B Sri Lanka
C China

D Pakistan
Answer: A


