## SSC MTS 8th July 2022 Shift-2

## English Language

1. Select the most appropriate option to fill in the blank. The Mid-Day Meal Programme has been running $\qquad$ 21 years.

A for

B Off

C since

D of
Answer: A
2. Select the option that can be used as a one-word substitute for the given group of words.

Not fit to eat

A Sullen

B Potable

C Inedible

D Fragile


Answer: C
3. Select the option that can be used as a one-word substitute for the given group of words.

A large group of people, especially the nomadic

A Cavalry

B Urban
C Horde

D Hamlet
Answer: C
4. Select the correctly spelt word.

A Innoculete

B Inoculate

C Inocculate
D Innoculate
Answer: B
5. Select the most appropriate meaning of the given idiom.

Water under the bridge

A Something which happens all the time

B Something that does not affect the past

C Anything from the past that is not significant or important anymore

D A problem which has been existing and will continue to exist in the future
Answer: C
6. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. Rivers / has being of primary / importance throughout / human history.

A Rivers

B human history

C has being of primary

D importance throughout

## Answer: C

7. Select the most appropriate meaning of the underlined idiom.

Ron added a feather in his cap by winning that international tournament.

A To feel well and healthy

B An achievement to be proud of

C To take advantage of one's position

D An expression of extreme annoyance
Answer: B
8. 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. In spite of hardly work / she was not able / to pass the exam.

A In spite of hardly work

B No error

C to pass the exam

D she was not able

## Answer: A

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

He came back from the game, took a $\qquad$ shower and was ready for the evening.

A fast
clean

C heavy
D quick
Answer: D
10. Select the option that can be used as a one-word substitute for the given group of words.

An action of making amends for a wrong or injury

A Atonement

B Redemption
C Rite

D Perjury
Answer: A
11. Select the most appropriate synonym of the given word. Intervene

A Embody
B Combine
C Coalesce

D Arbitrate

## Answer: D


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

A Pertinent
B Saintly
C Pleasant

D Evil
Answer: D
13. Select the option that rectifies the incorrectly spelt words in the given sentence. They have legitimete grounds to engagge users.

A They have legetimate grounds to engag users.
B They have legitimete grounds to engaege users.
C They have legitimate grounds to engage users.
D They have legitamate grounds to engage users.
14. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'
Despite not getting approval from the leader, we decided to carry out the plan.

A carry over

B carry away

C carry off

D No improvement required

## Answer: D

15. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'. In my experience, the press gallery are more concern to public affairs than private ones.

A is more concerned with

B No improvement required

C is much more concerned of

D are much concern for
Answer: A
16. Select the most appropriate ANTONYM of the given word. Abate

A Moderate

B Observe

C Aggravate
D Decrease
Answer: C
17. Select the most appropriate ANTONYM of the given word. Obvious

A Hidden

B Plain

C Vapid

D Active
Answer: A
18. Select the option that can be used as a one-word substitute for the given group of words. Animals that live in water

A Nocturnal
B Aerial

C Terrestrial
D Aquatic
Answer: D
19. Select the most appropriate ANTONYM of the underlined word in the given sentence. Many died in captivity and many suffered appalling brutality.

A ferocity

B cruelty
C sensuality

D gentleness
Answer: D
20. Parts of the following 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. The use of calculators is prohibited in the examination.

A is prohibited in

+
B No error

C The use of calculators
D the examination
Answer: B

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.

Comprehension:
Endurance was the three-masted ship in (1) $\qquad$ Sir Ernest Shackleton and a (2) $\qquad$ of 27 men sailed for the Antarctic on the
1914-1917 Imperial Trans-Antarctic Expedition. The ship, originally named Polaris, was built at Framnæs shipyard and (3) $\qquad$ in 1912 from Sandefjord in Norway. After her commissioners could no longer pay the shipyard, the ship (4) $\qquad$ bought by Shackleton in January 1914 for the expedition, which would be her first (5) $\qquad$ —.
21. Select the most appropriate option to fill in blank number 1.

A which

B who

D where
Answer: A
22. Select the most appropriate option to fill in blank number 2.

A watch

B team

C crew

D group
Answer: C
23. Select the most appropriate option to fill in blank number 3.

A released

B launched

C started

D recovered


Answer: B
24. Select the most appropriate option to fill in blank number 4.

A were

B was

C is

D are
Answer: B
25. Select the most appropriate option to fill in blank number 5.

A voyage

B route

C drive
D hike
Answer: A

## General Intelligence and Reasoning

26. Select the number that can replace the question mark (?) in the following series.
$42,38,80,118,198,316$, ?

A 486

B 506

C 514

D 494
Answer: C
27. Eight boys $A, B, C, D, E, F, G$ and $H$ are sitting around a square table, facing towards the centre(but not necessarily in the same order). Two boys are sitting on each side. G and C are sitting on the same side. E is sitting opposite to G and E is to the immediate right of $B$. $F$ and $H$ are sitting on the adjacent side of $G$ and $C$. $F$ and $H$ are sitting on the same side. $H$ is fourth to the left of $B$. $D$ is not the immediate neighbour of $G$. Which of the following pairs of boys represent the boys sitting on the same side of the square table?

A AC

B HD

C BD

D BA

## Answer: D

28. 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.
TRO : QMN :: BLA : ?

A YHZ

B XGZ

C XHG

D YGZ
Answer: D
29. The weight of seven boys $B 1, B 2, B 3, B 4, B 5, B 6$ and $B 7$ are compared. The weight of no two boys is the same. The weight of $B 4$ is less than only three boys. The weight of $B 1$ is more than $B 7$. The weight of $B 2$ is the most. $B 5$ and $B 6$ both weigh more than B1. The weight of B3 is less than that of B7.
How many boys weigh less than B1?

A 4

B 3

C 1

D 2

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


A

C

D


$\rightarrow<$

A CLHJ
B CLHK
C COHK

D COH
Answer: D
33. Select the option in which the given figure is embedded. (Rotation is not allowed)


A


B


C


D


Answer: D
34. In a certain code language, 'TORQ' is coded as '210', and 'HARN' is coded as '123'. How will 'PADM' be coded in that code language?

A 94
B 112
C 102

D 86

## Answer: C

35. The sequence of folding a piece of paper and the mam1er in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?


A


Answer: D
36. 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 car is a bench.
II. All tables are cars.

Conclusions:
I. Some cars are tables.
II. Some cars are benches.
III. No bench is a table.

A Only conclusion II follows
B All the conclusions follow

C Only conclusions I and III follow

D Only conclusions I and II follow

## Answer: C

37. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.
XJ, AG, DD, GA, ?

A KX

B JX

C KY

D JY
Answer: B
38. Select the option in which the numbers are related in the same way as are the numbers in the given set.
$(18,400,484)$

A $(20,400,576)$

B $(14,256,400)$

C $(22,400,324)$
D $(24,676,784)$

## Answer: D

39. Five people, J, N, P, R and S are sitting in a straight row, facing the North, but not necessarily in the same order. Only N sits between J and S. S sits to the immediate left of P . J sits to the immediate right of R . Who sits at the second position from the left end?

A S

B J

C P

D R
Answer: B
40. Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.
U144 : S121 :: N100 : L81 :: G64 : ?

A E49

B G49

C F36
D D30
Answer: A
41. Select the figure from the options that can replace the question mark (?) and complete the pattern (rotation is not allowed).


A


B


C


D


Answer: A
42. In a certain code language, 'MISTER' is coded as '925301','UNCLE' is coded as '84670', and 'SEN' is coded as '504'. How will 'MISTIC' be coded in that language?

A 936571
B 925326
C 876523
D 367829

## Answer: B

43. 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. All Crax are Chips.
II. All Drinks are Chips.

Conclusions:
I. Some Drinks are not Crax.
II. All Chips are Crax.

A Only conclusion I follows
B Neither conclusion I nor II follows
C Both conclusions I and II follow

D Only conclusion II follows
Answer: B
44. Select the option in which the numbers shares the same relationship as that shared by the numbers in the given set. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed) $(46,138,414)$

A $(38,114,342)$
B $(42,126,504)$

C $(52,156,624)$
D $(56,224,896)$

## Answer: A

45. In a certain code language, 'HAIR' is written as 'SJBI', 'POLE' is written as 'FMPQ'. How will 'MANY' be written in that language?

A ZOBM

B ZPBN

C ZOCN

D ZOBN
Answer: D
46. Which two numbers (not digits) and two signs need to be interchanged to make the given equation correct?
$28 \times 4+15 \div 8-34=388$

A $\times$ and $\div ; 28$ and 8

B + and $\div ; 4$ and 34

C $\quad$ and $\times ; 15$ and 28

D + and $\times$; 15 and 8
Answer: A
47. Select the figure from the options that can replace the question mark (?) and complete the pattern.


A


B


C


D


Answer: D
48. After interchanging the given two signs + and - and two numbers 6 and 25 , what will be the value of the given expression? $4-6 \div 5 \times 25+14$

A 5

B 10

C 20

D 15

## Answer: C

49. Select the option that will replace the question mark (?) in the given series.
$11,16,26,41,61$, ?

A 76

B 91

C 86

D 81
Answer: C
50. Select the figure from among the given options that can replace the question mark (?) in the following series.


A


B


C


D


Answer: D

## Numerical Aptitude

51. The length of the conuuon chord of two circles of radii 18 cm and 16 cm is 19.2 cm . What is the distance between the centres of the two circles? [Give your answer correct to the nearest integer value.]

A 23 cm

B 28 cm
C 20 cm

D 35 cm
Answer: B
52. Study the given table and answer the question that follows.

The table below shows the number of cricket bats made by five workers on six days of a particular week.

| $\begin{gathered} \text { Day } \rightarrow \\ \text { Worker } \end{gathered}$ | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A | 90 | 70 | 110 | 85 | 75 | 60 |
| B | 40 | 65 | 70 | 82 | 90 | 95 |
| C | 100 | 95 | 74 | 80 | 63 | 60 |
| D | 40 | 40 | 50 | 45 | 60 | 30 |
| E | 54 | 65 | 32 | 48 | 85 | 96 |

In how many days is the number of bats made by C more than the average number of bats made by A per day?

A 3

B 4

C 2
D 1
Answer: C
53. The length and the breadth of a rectangular cardboard are 40 cm and 35 cm , respectively. If the biggest possible square is cut out from this cardboard, what is the area of the remaining pan of the cardboard?

A $175 \mathrm{~cm}^{2}$

B $\quad 275 \mathrm{~cm}^{2}$
C $425 \mathrm{~cm}^{2}$

D $325 \mathrm{~cm}^{2}$
Answer: A
54. If the HCF of two numbers ( each greater than 17) be 17 and the LCM be 561 , then fmd the sum of the numbers.

A 387
B 238

C 268

D 340

## Answer: B

55. Shubham bought a book from Meesho at ₹ 500 . Meesho also charged an additional ₹ 25 for packaging and ₹ 50 for delivering the book. For what amount should Shubham sell his book to make a profit of $16 \%$ ?

A ₹667

B ₹612

C $₹ 783$

D ₹458
Answer: A
56. The average weight of 17 smdents of a class is 56 kg .3 new smdents whose weights are 57,62 and 68 kg , respectively, join the class. Find the new average weight of the smdents of the class.

A $\quad 56.45 \mathrm{~kg}$

B $\quad 56.95 \mathrm{~kg}$
C $\quad 58.05 \mathrm{~kg}$
D $\quad 57.65 \mathrm{~kg}$

## Answer: B

57. J can complete a work in 21 days, K can complete it in $\mathbf{4 2}$ days and L can complete it in 63 days. If $\mathrm{J}, \mathrm{Kand} \mathrm{L}$ work together, in how many days can they complete the work?

A $11{ }_{11}^{6}$
B $\quad 11 \stackrel{3}{11}$
C $\quad 11 \begin{array}{r}4 \\ \hline\end{array}$

D $\quad 11{ }_{11}^{5}$
Answer: D
58. If $A=\begin{gathered}3 \times 4+2 \\ 6 \div 3+2\end{gathered}$ and $B=\begin{gathered}12 \div 6 \times 2 \\ 8 \div 4-3\end{gathered}$, then what is the value of $A^{2}+B^{2}-2 A B$ ?

A 72.25
B 52.25

C 42.25

D 56.25
Answer: D
59. If $\mathbf{m}: \mathbf{n}=5: \mathbf{4}$ then what is the value of $\left(m^{2}+n^{2}\right):\left(m^{2}-n^{2}\right)$ ?

A $16: 9$

B 25:9
C 32:5
D $41: 9$
Answer: D
60. A sum of money is distributed among $A, B$ and $C$ in the ratio $8: 4-: 3$. If $A$ divides his pait between $D$ and $E$ in the ratio $9: 7$, then what is the ratio of the share of $C$ to that of $D$ ?

A $4: 5$

B $3: 4$

C 2:3
D 6:7

## Answer: C

61. The average age of 3 girls is 24 years and their ages are in the proponion of $7: 8: 9$. What is the age of the eldest girl?

A 24 years
B 25 years
C 21 years
D 27 years
Answer: D
62. Find the sum of money which must be invested at simple interest for 8 months at $6 \%$ per annum in order to earn ₹ 250 as interest.

A ₹ 6,550

B ₹6,225
C $₹ 7,250$

D ₹ 6,250
Answer: D
63. The cash difference between the selling prices of an article at a profit of $8 \%$ and at a loss of $4 \%$ is ₹ 54 . Find the cost price of the article.

A ₹ 720
B ₹450
C ₹540
D ₹480
Answer: B
64. A ce1tain number of idemical spheres are formed by melting a large sphere of radius $\mathbf{2 8} \mathbf{~ c m}$. What is the number of small spheres formed if the surface area of each small sphere is $2464 \mathrm{~cm}^{2} \boldsymbol{?}$ [Use $\pi={ }_{7}^{22}$ ]

A 8
B 9
C 6

D 7
Answer: A
65. The marked price of a laptop is $₹ 65,000$. The laptop is sold at a discount of $20 \%$. !fa profit of $30 \%$ is made through the sale, then what is the cost price of the laptop?

A ₹ 50,000
B ₹ 45,000
C ₹ 48,000
D ₹ 40,000
Answer: D
66. The following bar chart shows the number of computers sold by a shop in 6 consecutive months.


What is the average number of computers sold per month during this period? [Round off your answer to the nearest integer value.]

A 204

B 219

C 212

D 208
Answer: D
67. In a city $60 \%$ of the population are males and the rest are females. If the ratio of mai-ried males to non-married males is $5: 7$, and the ratio of married females to non-married females is $2: 3$, then what percentage of the total population is married?

A $41 \%$

B $59 \%$

C 51\%

D $49 \%$
Answer: A
68. The simple interest on a sum of money invested for a period of IO years is equal to ${ }_{5}^{4}$ th of the sum invested. What is the rate of sin1ple interest per annum that is being given?

A 9\%

B 8.5\%

C 10\%

D $8 \%$
Answer: D
69. $A_{1}$ alone can complete a piece of work in 14 days, $A_{2}$ alone can complete the same work in 21 days, while $A_{3}$ alone can complete the same work in 28 days. The three worked together, completed the work, and received a total payment of ₹ 1,040 for doing the work. What is $A_{2}$ 's share in the total payment received?

A ₹240

B ₹480
C ₹ 320

D ₹ 400
Answer: C
70. Ravi buys 5 pens at $₹ 150$ each, 2 pencils at $₹ \mathbf{1 0 0}$ each, and 3 notebooks at $₹ \mathbf{2 5 0}$ each. What is the average expenditure incurred by Ravi per article?

A ₹180
B ₹160

C ₹170
D ₹165

## Answer: C

71. Points $A$ and $B$ are 200 km apart. A person stans from $A$ at $10 \mathrm{a} . \mathrm{m}$. at a speed of $10 \mathrm{~km} / \mathrm{h}$ and goes towards $B$. Another person stans from B at 11 a.m. at a speed of $20 \mathrm{~km} / \mathrm{h}$ and goes towards A . At what time will they meet?

A 5:10 p.m.
B $\quad$ 4:40 p.m.
C 5:40 p.m.
D 5:20 p.m.
Answer: D
72. A boat can travel in still water at $7 \mathrm{~km} / \mathrm{h}$ and the speed of the stream is $3 \mathrm{~km} / \mathrm{h}$. Find the total tin1e (in hours) taken by the boat to travel 60 km upstream and remrn to the starting point.

A 20

B 15
C 21

D 16
Answer: C
73. The length of a rectangle is increased by $16{ }_{3}^{2} \%$. By what approximate percentage should its breadth be decreased so that the area of the rectangle remains unchanged?

A 17.5\%

B 14.29\%

C $10 \%$

D $12.5 \%$
Answer: B
74. Study the given pie-cha11 and answer the question that follows.

The pie-chart shows the percentage-wise distribution of teachers in a district who teach six different subjects as percentages of the total number of teachers of all the subjects taken together.

## Total number of teachers $=\mathbf{2 5 0 0}$



What is the ratio of the number of teachers who teach English to the number of teachers who teach Chemistry?

A $3: 2$

B 23:18
C 24:23

D 13: 20
Answer: C
75. Select the number that will come in place of the question mark (?) in the mathematical statement. $(0.064)^{123} \div 0.16^{47} \times 0.4^{34} \times 0.4^{29}=(0.4)^{?}$

A 350

B 320

C 338

D 341
Answer: C

## General Awareness

76. Which schedule of the Indian Constitution has provisions related to the Union list?

A Fourth schedule

B Ninth schedule

C Seventh schedule

D Tenth schedule
Answer: C
77. Sarai Nurmahal is a centrally protected monument of India. It is situated in which state of India?

A Uttar Pradesh

B West Bengal

C Punjab

D Himachal Pradesh
Answer: C
78. Open Market Operations conducted by the Reserve Bank of India (RBI) are of $\qquad$ types.

A two

B three

C five

D four
Answer: A
79. Which of the following diseases is caused by the prolonged deficiency of vitamin D ?

A Rickets

B Chickenpox

C Scurvy

D Marasmus
Answer: A
80. The Deccan plateau lies to the south of which of the following rivers?

A Narmada

B Krishna
C Kaveri

D Penna
Answer: A
81. Ravikirti was a court poet of which Chalukya ruler?

A Bhima II

B Pulakeshin II

C Vikramaditya II
D Kirtivarman II

## Answer: B

82. Which article of the Indian Constitution states that 'No person shall be prosecuted and punished for the same offence more than once'?

A Article 18

B Article 28
C Article 20
D Article 21A

## Answer: C

83. Which of the following events occurred as an after-effect of the Jallianwala Bagh Massacre (13th April 1919)?

A Hunger strike to settle disputes between the mill owners and the workers
B Individual princes could sign a separate agreement with the British
C Hunter Commission was appointed by the British Government
D Popularisation of Charkha and Khadi and Jail Bharo by Congress volunteers
Answer: C
84. Pandit Kishan Maharaj was associated with which instrument?

A Santoor
B Dholak

C Tabla
D Sitar
Answer: C
85. What is the approximate atomic mass (u) of hydrogen?

A 12

B 4

C 1

D 14
Answer: C
86. What is the atomic number of chromium?

A 24

B 18

C 21

D 19

## Answer: A

87. In which city, Prime Minister Narendra Modi launched the Ayushman Bharat Health Infrastructure Mission?

A Kanpur
B Lucknow


Answer: D
88. In which year did the Mughal emperor Aurangzeb die?

A 1707

B 1701

C 1705

D 1703
Answer: A
89. $\qquad$ is the deepest landlocked and well-protected port in India.

A Kandla port

B Vishakhapatnam port
C Tuticorin port

D Mumbai port
Answer: B
90. Radha Sridhar received the Sangeet Natak Akademi Award for the year 2018 for her contribution to which classical dance of India?

A Kathak dance
B Kuchipudi

C Sattriya

D Bharatanatyam

## Answer: D

91. Who was appointed as the Chief Economic Advisor to the Government of India in January 2022?

A S Ramakrishnan

B Krishnamurthy Subramanian
C Raghuram Rajan

D V Anantha Nageswaran
Answer: D
92. Which of the following statements is correct?
I. Most of Ashoka's inscriptions were written in Brahmi script.
II. Many of Chanakya's ideas were written down in a book called the Arthashastra.

A Only II

B Only I

C Neither I nor II

D Both I and II
Answer: D
93. Which of the following states does the dance form 'Kalbelia' belong to?

A Uttarakhand

B Punjab
C Rajasthan

D Odisha
Answer: C
94. In which state of India is the Yaoshang festival celebrated?

A Uttar Pradesh
B Manipur
C Rajasthan

D Tamil Nadu

## Answer: B

95. As per census 2011, which of the following is the most spoken language of India?

A Hindi

B Marathi
C English

D Telugu
Answer: A
96. How many players are a part of the team on the field in a game of Hockey?

A 10
B 16

C $\quad 12$

D 11
Answer: D
97. Which of the following bases is found in window cleaner?

A Magnesium hydroxide
B Ammonium hydroxide
C Sodium hydroxide
D Calcium hydroxide

## Answer: B

98. David Warner played for which team in IPL 2022?

A Sunrisers Hyderabad
B Royal Challengers Bangalore
C Delhi Capitals

D Punjab Kings
Answer: C
99. According to the 2011 Census, which of the following has the second highest sex ratio in India?

A Tamil Nadu
B Kerala

C Puducherry
D Maharashtra
Answer: C
100. Who is the author of the book 'Roads to Mussoorie'?

A Kiran Desai
B Ashwin Sanghi
C Amish Tripathi
D Ruskin Bond
Answer: D

