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# AP ICET 17th September 2021 Shift-1

## Analytical Ability

### Instructions [1 - 20]

In the following questions, a question is followed by data in the form of two statements labelled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions.

1. What is remainder when a number ' $x$ ' is divided by 9?

I) The remainder left when ' $x$ ' divided by 3 is zero.

II) The sum of the digits in ' $x$ ' is 3

A if the statement I alone is sufficient to answer the question.

B if the statement II alone is sufficient to answer the question.

C if the statements I and II together are sufficient to answer the question but neither statement alone is sufficient.

D if both the statements I and II together are not sufficient to answer the question and additional data is required.

**Answer: B**

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2. What is the distance between the points 'A' and 'B' ?

I) The velocity of the stream is 2Km/hr and the speed of the boat in still water is 15Km/hr.

II) The boat takes 30 hours to travel down stream from point 'A' to point 'B' and coming back to point 'C' which is in the midway between 'A' and 'B'

A if the statement I alone is sufficient to answer the question.

B if the statement II alone is sufficient to answer the question.

C if the statements I and II together are sufficient to answer the question but neither statement alone is sufficient.

D if both the statements I and II together are not sufficient to answer the question and additional data is required.

**Answer: C**

3. What is the present age of Anil?

I) Five years ago, Anil's age was twice that of his son's age?

II) Five years hence, the ratio of the ages of Anil and his son will be 12 : 7

A if the statement I alone is sufficient to answer the question.

B if the statement II alone is sufficient to answer the question.

- C** if the statements I and II together are sufficient to answer the question but neither statement alone is sufficient.
- D** if both the statements I and II together are not sufficient to answer the question and additional data is required.

**Answer: C**

4. What is that two digit number?

- I) The sum of the two digits of that number is 12  
II) The difference between the two digits of that number is 6

- A** if the statement I alone is sufficient to answer the question.
- B** if the statement II alone is sufficient to answer the question.
- C** if the statements I and II together are sufficient to answer the question but neither statement alone is sufficient.
- D** if both the statements I and II together are not sufficient to answer the question and additional data is required.

**Answer: D**

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5. What is the profit earned on selling the article ' $x$ '?

- I) The article ' $x$ ' is sold for Rs. 5100 after giving a discount of 15%.  
II) If the article ' $x$ ' is sold for the marked price, the profit could be 20%.

- A** if the statement I alone is sufficient to answer the question.
- B** if the statement II alone is sufficient to answer the question.
- C** if the statements I and II together are sufficient to answer the question but neither statement alone is sufficient.
- D** if both the statements I and II together are not sufficient to answer the question and additional data is required.

**Answer: C**

6. A, B, C, D, E and F are sitting around a circle facing its centre. Who is sitting at the immediate right of B?

- I) 'A' is facing 'D'. Only 'C' is between 'A' and 'B'. 'F' is between 'E' and 'A'.  
II) 'F' is sitting on the immediate left to 'E'. Only 'D' is between 'B' and 'E'. 'C' is not adjacent to F.

- A** if the statement I alone is sufficient to answer the question.
- B** if the statement II alone is sufficient to answer the question.

- C** if the statements I and II together are sufficient to answer the question but neither statement alone is sufficient.
- D** if both the statements I and II together are not sufficient to answer the question and additional data is required.

**Answer: B**

7. Among six persons A, B, C, D, E, F who is the tallest ?

I) 'C' is taller than only two persons. 'B' is taller than 'A' and 'E' is taller than only 'F'.

II) A' is shorter than only two persons. 'E' is taller than 'F' but shorter than 'C'. 'C' is shorter than 'A' and 'B' is shorter than 'D'.

- A** if the statement I alone is sufficient to answer the question.
- B** if the statement II alone is sufficient to answer the question.
- C** if the statements I and II together are sufficient to answer the question but neither statement alone is sufficient.
- D** if both the statements I and II together are not sufficient to answer the question and additional data is required.

**Answer: B**

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8. What is the rate of interest 'R'?

I) The compound interest on Rs.3 500 in 2 years at the rate 'R' is equal to the simple interest in 4 years on Rs.1855

II) In 7 years, Rs. 2.300 at rate the 'R' becomes Rs. 4232 by simple interest.

- A** if the statement I alone is sufficient to answer the question.
- B** if the statement II alone is sufficient to answer the question.
- C** if the statements I and II together are sufficient to answer the question but neither statement alone is sufficient.
- D** if both the statements I and II together are not sufficient to answer the question and additional data is required.

**Answer: B**

9. What is Nitin's rank from the top, in a class of 40 students?

I) There are 10 students between Nitin and Naveen.

II) Naveen is twentieth from the top.

- A** if the statement I alone is sufficient to answer the question.
- B** if the statement II alone is sufficient to answer the question.

- C** if the statements I and II together are sufficient to answer the question but neither statement alone is sufficient.
- D** if both the statements I and II together are not sufficient to answer the question and additional data is required.

**Answer: D**

10. **How many toys were sold on Monday?**

**I) It was 10% more than the number of toys sold on the previous day**

**II) On Sunday every third visitor to the shop bought a toy and there were 1500 visitors on Sunday**

- A** if the statement I alone is sufficient to answer the question.
- B** if the statement II alone is sufficient to answer the question.
- C** if the statements I and II together are sufficient to answer the question but neither statement alone is sufficient.
- D** if both the statements I and II together are not sufficient to answer the question and additional data is required.

**Answer: C**

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11. **What was his average speed?**

**I) He travelled the last  $\frac{1}{4}$  of the distance at 6 Kmph.**

**II) He travelled the first  $\frac{1}{4}$  of the distance at 5 Kmph.**

- A** if the statement I alone is sufficient to answer the question.
- B** if the statement II alone is sufficient to answer the question.
- C** if the statements I and II together are sufficient to answer the question but neither statement alone is sufficient.
- D** if both the statements I and II together are not sufficient to answer the question and additional data is required.

**Answer: D**

12. **What is the arithmetic mean of the real numbers p, q, r, s ?**

**I)  $p + q + s = 25 + p$**

**II)  $5(r + s + p) = 17 - 5q$**

- A** if the statement I alone is sufficient to answer the question.
- B** if the statement II alone is sufficient to answer the question.

- C** if the statements I and II together are sufficient to answer the question but neither statement alone is sufficient.
- D** if both the statements I and II together are not sufficient to answer the question and additional data is required.

**Answer: B**

13. What percent of 45 is 'x'?

I) 'x' is 40 percent of 135

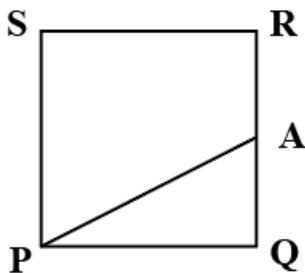
II) 9 percent of 'x' is less than 5

- A** if the statement I alone is sufficient to answer the question.
- B** if the statement II alone is sufficient to answer the question.
- C** if the statements I and II together are sufficient to answer the question but neither statement alone is sufficient.
- D** if both the statements I and II together are not sufficient to answer the question and additional data is required.

**Answer: A**

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14. PQRS is a square with sides of length 6 and point 'A' is on the side QR. What is the area of the triangle PAQ?



I)  $AP > 6$

II) 'A' is in the midpoint of QR.

- A** if the statement I alone is sufficient to answer the question.
- B** if the statement II alone is sufficient to answer the question.
- C** if the statements I and II together are sufficient to answer the question but neither statement alone is sufficient.
- D** if both the statements I and II together are not sufficient to answer the question and additional data is required.

**Answer: B**

15. What is the age of 'P' ?

I) 'P' is older than 'Q'

II) The age of 'Q' is 20 years

- A if the statement I alone is sufficient to answer the question.
- B if the statement II alone is sufficient to answer the question.
- C if the statements I and II together are sufficient to answer the question but neither statement alone is sufficient.
- D if both the statements I and II together are not sufficient to answer the question and additional data is required.

**Answer: D**

16. Is the integer 'n' divisible by 35?

I) 'n' is divisible by 14

II) 'n' is divisible by 15

- A if the statement I alone is sufficient to answer the question.
- B if the statement II alone is sufficient to answer the question.
- C if the statements I and II together are sufficient to answer the question but neither statement alone is sufficient.
- D if both the statements I and II together are not sufficient to answer the question and additional data is required.

**Answer: C**

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17. What is the cost price of a chair?

I) If a discount of 25% were given, the selling price would have been less by Rs. 50.

II) Two successive discount of 5% each were given.

- A if the statement I alone is sufficient to answer the question.
- B if the statement II alone is sufficient to answer the question.
- C if the statements I and II together are sufficient to answer the question but neither statement alone is sufficient.
- D if both the statements I and II together are not sufficient to answer the question and additional data is required.

**Answer: D**



18. Ganesh and Gopal each caught some fish in a fish tank. Who caught more fish?

I) After Gopal stopped fishing, Ganesh continued fishing for another 15 minutes.

II) Ganesh caught  $\frac{2}{3}$  times as many fish as Gopal caught.

- A if the statement I alone is sufficient to answer the question.
- B if the statement II alone is sufficient to answer the question.
- C if the statements I and II together are sufficient to answer the question but neither statement alone is sufficient.
- D if both the statements I and II together are not sufficient to answer the question and additional data is required.

**Answer: B**

19. What is the sum of the two positive integers?

I) One of the integer is 17.

II) The LCM of the integers is 51.

- A if the statement I alone is sufficient to answer the question.
- B if the statement II alone is sufficient to answer the question.
- C if the statements I and II together are sufficient to answer the question but neither statement alone is sufficient.
- D if both the statements I and II together are not sufficient to answer the question and additional data is required.

**Answer: D**

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20. What is the 3<sup>rd</sup> number of eight consecutive integers?

I) Their product is divisible by 720

II) The sum of all the eight integers is 84

- A if the statement I alone is sufficient to answer the question.
- B if the statement II alone is sufficient to answer the question.
- C if the statements I and II together are sufficient to answer the question but neither statement alone is sufficient.
- D if both the statements I and II together are not sufficient to answer the question and additional data is required.

**Answer: B**

**Instructions [21 - 30 ]**



Note :

In each of the following questions (from 21 to 30), a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled by the correct answer from the four given options to complete the sequence without breaking the pattern.

21. **BCE : EGK :: KMQ : \_\_\_\_\_**

- A** QSU
- B** QSW
- C** QST
- D** QSR

**Answer: B**

22. **1000 : 512 :: ..... : 343**

- A** 1331
- B** 729
- C** 739
- D** 829

**Answer: B**

**SSC CHSL Previous Question papers (download pdf)**

23. **10 : 99 :: 9 : \_\_\_\_\_**

- A** 84
- B** 83
- C** 82
- D** 30

**Answer: D**

24. **AFR : ZEQ :: EMG : \_\_\_\_\_**

- A** FNH
- B** DLF
- C** FLH
- D** DNF

**Answer: B**

25.  $8 : 81 :: 9 : \underline{\hspace{1cm}}$

- A** 92
- B** 102
- C** 101
- D** 64

**Answer: D**

### SSC CHSL Free Mock Test

26.  $\text{LOSE} : \text{OSVI} :: \text{GAIN} : \underline{\hspace{1cm}}$

- A** IELQ
- B** JDLP
- C** IDMP
- D** JELR

**Answer: D**

27.  $\text{HARD} : \text{DONZ} :: \text{SOFT} : \underline{\hspace{1cm}}$

- A** PEBQ
- B** PECR
- C** PIBQ
- D** PICR

**Answer: A**

28.  $78 : 225 :: 69 : \underline{\hspace{1cm}}$

- A** 225
- B** 241
- C** 147
- D** 117

**Answer: A**

## SSC CGL Free Mock Test

29.  $54 : 96 :: 63 : \underline{\hspace{2cm}}$

**A** 108

**B** 229

**C** 483

**D** 714

**Answer: D**

30.  $34 : 1849 :: 23 : \underline{\hspace{2cm}}$

**A** 925

**B** 1024

**C** 1369

**D** 1516

**Answer: B**

**Instructions [31 - 35]**

Pick the odd thing out in the following.

**A** Bad

**B** Bright

**C** White

**D** Good

**Answer: C**

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**A** NOVEL

**B** COMPEL

**C** POWDER

**D** LABOUR

**Answer: D**

- A** Scissor
- B** Tape
- C** Bobbin
- D** Blouse

**Answer: D**

- A** GRUNT
- B** SHOUT
- C** HOWL
- D** BARK

**Answer: B**

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- A** Belief
- B** Shield
- C** Brief
- D** Deceit

**Answer: D**

#### Instructions [31 - 40 ]

Note: The following question follows a definite pattern. Observe the same and fill in the blank with suitable answer.

31. 39, 155, 399, 1463, \_\_\_\_\_

- A** 2379
- B** 2157
- C** 1935
- D** 1723

**Answer: A**

32. ABS, CD25, EF61, GH113 , \_\_\_\_\_

- A** IJ151

**B** IJ181

**C** IJ213

**D** IJ247

**Answer: B**

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33. 24, 120, 336, 1320, \_\_\_\_\_

**A** 1731

**B** 1950

**C** 2184

**D** 1379

**Answer: C**

34. 6, 15, 35, 77, 143, \_\_\_\_\_

**A** 221

**B** 191

**C** 161

**D** 201

**Answer: A**

35. CW, EU, GS, KO, \_\_\_\_\_

**A** LP

**B** MQ

**C** LK

**D** MM

**Answer: D**

### SBI Clerk Free Mock Test (Latest Pattern)

36. (8,24), (48,120), (168,288), (360,528), \_\_\_\_\_

**A** (630,748)

**B** (840,960)

**C** (759,870)

**D** (893,971)

**Answer: B**

37. 3D5, 5F7, 7I11, 11L13, \_\_\_\_\_

**A** 13M15

**B** 13N15

**C** 13'O'17

**D** 13P15

**Answer: C**

38. 6, 35, 143, 323, \_\_\_\_\_

**A** 575

**B** 483

**C** 657

**D** 667

**Answer: D**

### **SBI Clerk Previous Papers (Download PDF)**

39. ACE, CFI, EIM, GLQ, \_\_\_\_\_

**A** IOU

**B** HOU

**C** INT

**D** HNT

**Answer: A**

40. E, H, L, R, \_\_\_\_\_

**A** Y

**B** T

C X

D U

**Answer: C**

**Instructions [41 - 43 ]**

Note:

The following table shows the number (in thousands) of toys of types P, Q, R, S and K manufactured by company during the years 2016 to 2020. Study the table carefully and answer questions 46 to 48

Type → Year ↓	P	Q	R	S	K
2016	300	250	178	190	165
2017	250	280	200	170	170
2018	280	275	192	185	185
2019	295	260	220	175	175
2020	320	285	230	180	180

41. What was the approximate percentage of increase in the manufacture of type 'S' toys from 2016 to 2020?

A 29

B 25

C 28

D 26

**Answer: D**

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42. The type of toy which recorded continuous growth in the manufacture during the given period is

A Q

B R

C S

D K

**Answer: C**

43. The approximate percentage of increase in the manufacture of all toys from 2016 to 2020



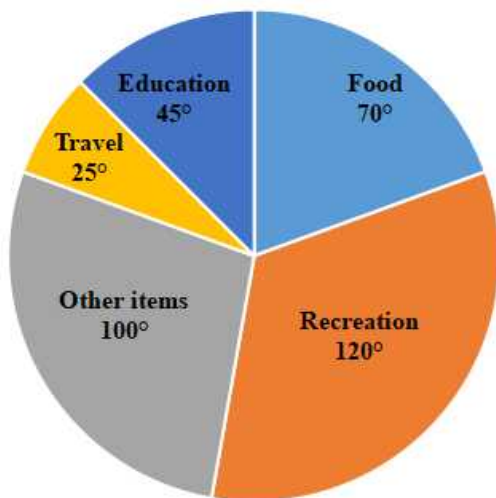
- A** 18
- B** 16
- C** 13
- D** 14

**Answer: B**

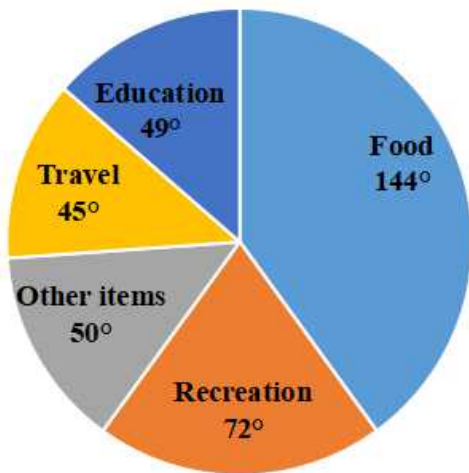
**Instructions [44 - 48 ]**

Note:

The Pie charts given below represent allocations given to various items by two families 'A' and 'B'. Study these charts carefully and answer questions.



**A**



**B**

44. what is the approximate percentage of allocation by the family 'A' on recreation

- A**  $32\frac{1}{3}$
- B** 32
- C** 34

**D**  $33\frac{1}{3}$

**Answer: D**

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45. The ratio of the allocations by the family 'B' on travel to that on other items is

**A** 8 : 9

**B** 9 : 10

**C** 12 : 13

**D** 7 : 8

**Answer: B**

46. What is the ratio of the allocation on travel to that on recreation by the family 'A'

**A** 1 : 12

**B** 2 : 31

**C** 5 : 24

**D** 4 : 9

**Answer: C**

47. What is the percentage of allocation made by the family 'B' on Food?

**A** 40

**B** 35

**C** 36

**D** 42

**Answer: A**

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48. What is the ratio of allocation on food to that on travel by the family 'B'

**A** 14 : 5

**B** 5 : 2

**C** 3 : 2

**D** 16 : 5

**Answer: D**

**Instructions [49 - 50 ]**

Note:

120 students of a class participated in 3 events A, B, and C as follows:  $9x$  students participated in event 'A'  $11x$  students in 'B'.  $12x$  students in 'C'.  $2x$  students in both 'A' and 'B'.  $3x$  students in both 'B' and 'C',  $4x$  students in both 'C' and 'A' and ' $x$ ' students in all the 3 events. The number of students who participated in the event 'C' alone is 24. Based on this information answer questions.

49. The number of students who did not participate in any of the 3 events 'A', 'B', and 'C' is

**A** 4

**B** 8

**C** 24

**D** 12

**Answer: C**

50. The number of students who participated either in the event 'A' or in the event 'C' but not in the event 'B'. is

**A** 48

**B** 52

**C** 68

**D** 62

**Answer: B**

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**Instructions [51 - 55 ]**

Note:

Each of the questions from 56 to 60 has different coding pattern. Identify the pattern and answer questions

51. In a code the word 'PERSON' is coded as 214 and the word 'MASTER' is coded as 164, then in the same code the word 'BENGAL' is coded as.

**A** 94

**B** 104

**C** 124

**D** 144

**Answer: A**

52. In a certain code the word 'PRINCE' is coded as 'DFJOQS' and the word 'MASTER' is coded as 'FSTUNB' then in the same code the word 'SOCIAL' is coded as.

**A** JTPBMO

**B** BMDJTP

**C** TPDJBM

**D** JBMTPD

**Answer: B**

53. In a certain code the word 'MANGO' is coded as 'JDKJL'. then in the same code the word 'GRAPE' is coded as.

**A** ETYRC

**B** EUYSC

**C** DUXSB

**D** DTXRB

**Answer: C**

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54. In a certain code, the word 'BRAIN' is coded as 'PKCTD', then in the same code the word 'HEART' is coded as

**A** VQCTI

**B** VTCGJ

**C** UTCGJ

**D** UQCGI

**Answer: B**

55. In a certain code the word 'TEACHER' is coded as 'VULGOUX' then in the same code 'STUDENT' is coded as,

**A** XRUGEXV

**B** XSUHIXW

**C** X S U G E X V

**D** X R U H I X W

**Answer: D**

**Instructions [56 - 60]**

Note:

Each of the questions has different coding pattern. Identify the pattern and answer questions.

56. If 'PROFIT' is coded as 'RTQHKV', then in the same code 'EIGHT' is coded as

**A** G J I J V

**B** G K I L V

**C** G K I J V

**D** G K H J V

**Answer: C**

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57. If 'FAVOUR' is coded as 'ROUVAF' and 'PAPER' is coded as 'REPAP', then in the same code 'CERTAIN' is coded as,

**A** N A I T R E C

**B** N I B S R E C

**C** N A I T E R C

**D** N I A T R E C

**Answer: D**

58. If 'RANGER' is coded as 'ARGNRE', then in the same code 'CHAIRS' is coded as

**A** C H I A S R

**B** H C I A S R

**C** H C I A R S

**D** C H A I S R

**Answer: B**

59. If 'ROAD' is coded as 'GDRU', then in the same code. 'BEAT', is coded as

- A** W D H E
- B** W D G E
- C** W D H F
- D** W C H E

**Answer: A**

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60. If 'SWEET' is coded as 'QUCCR', then in the same code, 'MEALS' is coded as

- A** K C Z J Q
- B** K D Y J Q
- C** K C Y I Q
- D** K C Y J Q

**Answer: D**

61. If 9<sup>th</sup> February 2012 was Thursday, the day of February 19, 2016 was

- A** Tuesday
- B** Wednesday
- C** Friday
- D** Saturday

**Answer: C**

62. The time between 2 and 3 O'clock at which the minute hand and the hour hand in a clock are in the same straight line but in opposite directions, is

- A**  $42\frac{3}{11}$  minutes past 2 o'clock
- B**  $42\frac{7}{11}$  minutes past 2 o'clock
- C**  $43\frac{7}{11}$  minutes past 2 o'clock
- D**  $44\frac{2}{11}$  minutes past 2 o'clock

**Answer: C**

### SSC CHSL Previous Question papers (download pdf)

63. A clock is set right at 8.00 am on 1-1-2018. The clock gains 15 min in 24 hours. The time(nearly) on the clock when the actual time is 10.00 am on 04-01-2018 is

- A 10.42 am
- B 10.46 am
- C 11.00 am
- D 11.05 am

**Answer: B**

64. X is the father of Y and Z is the son of W. R is the brother of X and Y is the sister of Z. Then W is related to R as

- A Sister
- B Niece
- C Sister-in-law
- D Brother-in-law

**Answer: C**

65. Y to Z is  $\frac{4}{5}$ th of the maximum speed allowed. A car departs from the station Y at 2.00 pm and arrived the station Z at 7.30 pm. A train departs from station Y at 2.00 pm and arrived the station Z at 10.00 pm. By how much the car's speed is more than the maximum allowed speed of the train, if the car was stopped 30 minutes for lunch break?

- A 40 Km/hr
- B 24 Km/hr
- C 17.5 Km/hr
- D 16.5 Km/hr

**Answer: C**

### SSC CHSL Free Mock Test

66. Anil started from his house for school t minutes later than his normal time and travelled with  $\frac{4}{3}$  of the usual speed to arrive at the school t minutes early. Next day if he started t minutes earlier than the previous day and travelled with  $\frac{8}{11}$  of his usual speed, then he would have reached his school

- A t minutes late
- B Exactly on time



C 3t minutes late

D  $\frac{t}{10}$  minutes late

**Answer: C**

67. In a group of boys sitting in a row, Ramesh is  $8^{th}$  from the left and Mohan is  $11^{th}$  from the right. If Ramesh is fourteenth from the left when they interchange their places, then the position of Mohan now from the right is

A 15

B 16

C 17

D 18

**Answer: C**

68. In a code language if '+' means 'x', 'x' means '-', '-' means '÷' and '÷' means '+', then  $2 \div 4 + 8 - 16 \times 32 \div 64 \times 128 \div 256 =$

A 20

B 27

C 64

D 164

**Answer: D**

### SSC CGL Free Mock Test

69. If  $3 * 1 = 20$ ,  $6 * 1 = 50$  and  $2 * 6 = -40$  then  $5 * 8 =$

A -50

B -30

C 30

D 100

**Answer: B**

70. If B stands for '>', 'C' stands for '<', 'D' stands for '=', 'E' stands for '≠', 'F' stands for '<' and 'x', 'y' and 'z' are real numbers, then  $(4x F 5y)$  and  $(5y E 3z) \Rightarrow$

A  $4xD3z$

**B**  $4xC3z$

**C**  $4xB3z$

**D**  $4xF3z$

**Answer:** D

## SSC CGL Free Online Coaching

### Communication Ability

#### Instructions [71 - 74 ]

Choose the correct meaning of the word given:

71. **discordant**

**A** empathetic

**B** pessimistic

**C** incongruous

**D** agile

**Answer:** C

## SSC CGL PREVIOUS PAPERS (download pdf)

72. **Entreat**

**A** plead

**B** praise

**C** refuse

**D** resonate

**Answer:** A

73. **Implore.**

**A** demand

**B** assure

**C** plead

**D** look inside

**Answer:** C

74. **Disclose**

- A** cover
- B** conceal
- C** disguise
- D** reveal

**Answer:** D

### **SBI PO Solved Previous Papers (Download PDF)**

75. **Fill in the blank by choosing the correct meaning of the word given:**

**To corner a market means to \_\_\_\_\_ a market.**

- A** lose
- B** identify
- C** reject
- D** to acquire enough

**Answer:** D

#### **Instructions [76 - 84 ]**

Choose the correct meaning of the word given:

76. **momentous**

- A** very important
- B** risky
- C** momentary
- D** sacred

**Answer:** A

77. **That which is sure to happen**

- A** inedible
- B** inaudible
- C** incurable
- D** inevitable

**Answer: D**

### SBI Clerk Free Mock Test (Latest Pattern)

78. **Judicious**

- A** finicky
- B** carefully considered
- C** jovial
- D** narrow

**Answer: B**

79. **Axiomatic**

- A** mathematic
- B** numismatic
- C** self-evident
- D** aromatic

**Answer: C**

80. **Paragon**

- A** gun
- B** paraffin
- C** model
- D** paradox

**Answer: C**

### SBI Clerk Previous Papers (Download PDF)

81. **A collector of ancient relics**

- A** antidote
- B** antiseptic
- C** antiquary
- D** aviary

**Answer: C**

82. **To deviate from focus**

- A** regress
- B** ingress
- C** progress
- D** digress

**Answer: D**

83. **A remedy to counter the evil effects of poison**

- A** anecdote
- B** antidote
- C** antipodes
- D** antibody

**Answer: B**

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84. **Latent**

- A** hidden
- B** recent
- C** rational
- D** progressive

**Answer: A**

85. **Fill in the blank by choosing the correct meaning of the word given:**

The outgoing CEO was very friendly with the press and it really \_\_\_\_ him even for what he did not achieve.

- A** criticized
- B** lionized
- C** showered
- D** downplayed

**Answer: B**

**Instructions [86 - 100 ]**

Choose the appropriate answer:

86. **D.C.F. stands for**

- A** Discarded Cash Flow
- B** Discounted Cash Flow
- C** Discarded Cash Fund
- D** Discounted Cash Fund

**Answer: B**

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87. **The contingency theory stresses on the importance of**

- A** bossism
- B** funding
- C** environment
- D** manpower

**Answer: C**

88. **ISDN stands for**

- A** Integrated Sectional Digital Network
- B** Improved Services Digital Network
- C** Integrated Services Digital Network
- D** Integrated Server Digitalized Network

**Answer: C**

89. **A sentence used to check transmission by a terminal**

- A** A sentence used to check transmission by a terminal
- B** fox message
- C** full duplex
- D** flow charge

**Answer: B**

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90. **Surge price in services such as airlines or aggregate cab services are generally restored due to**

- A** Human greed
- B** Capacity limitations
- C** Price war
- D** The policy of make hay while the sun shines

**Answer: B**

91. **'kbps' stands for**

- A** kilo bits per second
- B** kilo bites per second
- C** kilo bels per second
- D** kilo boots per second

**Answer: A**

92. **A blue collar job is one which involves working**

- A** at the desk in an office
- B** with one's hands
- C** late at night
- D** continuously for 24 hours

**Answer: B**

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93. **"To be on the same page" means**

- A** to stop reading
- B** to agree
- C** to disagree
- D** to lose interest in reading



**Answer: B**

94. **A financial instrument that contains a written agreement to repay the amount at an agreed time is**

- A** insurance bond
- B** promissory note
- C** hundred rupee note
- D** affidavit

**Answer: B**

95. **Which of the below is not an indirect tax?**

- A** GST
- B** Sale tax
- C** Income tax
- D** Excise

**Answer: C**

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96. **Usually our purchasing power increases because of**

- A** inflation
- B** deflation
- C** demonetization
- D** world bank policy

**Answer: B**

97. **A method used by fraudsters to capture customer's personal or account information of credit card is called**

- A** money laundering
- B** skimming
- C** block chain system
- D** Nostro account

**Answer: B**

98. A senior official appointed by RBI to handle and redress complaints against deficiency in certain banking services is known as

- A LIBOR
- B MIBOR
- C banking ombudsman
- D public credit registry

**Answer: C**

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99. In business parlance, 'Merchandise' means

- A Merchant activity of a company
- B Products or goods bought or sold by a company
- C Merchants association related to a company
- D The business profit of a company

**Answer: B**

100. 'Overheads' in accounts of a business organization refer to

- A Day-to-day to costs of running a company
- B Over-ruled expenditure of a company
- C Costs different from operating costs of a business
- D Costs or expenditure that are slighted by the accountant

**Answer: A**

### Instructions [101 - 108]

Fill in the blank by choosing the appropriate answer:

01. Lack of civic sense is the root cause \_\_\_\_ all the problems of sanitation.

- A on
- B of
- C off
- D with

**Answer: B**

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02. In ancient India, Indian merchants had been engaged in overseas business \_\_\_\_\_ centuries.

- A in
- B for
- C since
- D by

**Answer: B**

03. Applications for the post should be received \_\_\_\_\_ April 25th.

- A with
- B for
- C at
- D by

**Answer: D**

04. He is a man who always stands \_\_\_\_\_ his words.

- A on
- B by
- C at
- D in

**Answer: B**

### SSC CHSL Previous Question papers (download pdf)

05. She \_\_\_\_\_ working at the college as soon as she gets her US visa.

- A had stopped
- B was stopping
- C will stop
- D stopped

**Answer: C**

06. It was raining \_\_\_\_\_ by the time we finished the game.

- A lazily
- B heavily
- C practically
- D periodically

**Answer: B**

07. I \_\_\_\_\_ never seen such a movie before.

- A have
- B has
- C were
- D did

**Answer: A**

### SSC CHSL Free Mock Test

08. The manager wanted to bring \_\_\_\_\_ a real change in the company.

- A upon
- B about
- C toward
- D at

**Answer: B**

#### Instructions [109 - 111 ]

Choose the appropriate answer:

09. The streets were flooded when the pipeline bursted.

1                      2                      3                      4

identify the error

- A 1
- B 2
- C 3

**D** 4

**Answer: D**

10. He broke a antique and expensive vase.

1      2                      3                      4

identify the error

**A** 1

**B** 2

**C** 3

**D** 4

**Answer: C**

### SSC CGL Free Mock Test

11. It is not very warm today

Put a question tag.

**A** wasn't it?

**B** was it?

**C** isn't it?

**D** is it?

**Answer: D**

12. Fill in the blank by choosing the appropriate answer:

We are committed \_\_\_\_\_ learning grammar.

**A** with

**B** about

**C** to

**D** for

**Answer: C**

### Instructions [113 - 114]

Choose the appropriate answer:

13. Change the sentence into passive voice 'Read the story carefully'.

- A** You read the story carefully
- B** Let the story read carefully
- C** Let you read the story carefully
- D** Let the story be read carefully

**Answer: D**

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14. **The teacher said. "Have you done your homework?"**  
**Change into indirect speech.**

- A** The teacher gave homework
- B** The teacher told do homework
- C** The teacher asked if I had done my homework
- D** The teacher said if you had done homework

**Answer: C**

### Instructions [115 - 120 ]

Fill in the blank by choosing the appropriate answer:

15. **I prefer sleeping under a roof \_\_\_\_\_ sleeping outdoors**

- A** than
- B** to
- C** but
- D** also

**Answer: B**

16. **Let us \_\_\_\_\_ our differences and work for our nation**

- A** set up
- B** step up
- C** set aside
- D** look through

**Answer: C**

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17. Much of what he says \_\_\_\_\_ untrue.

- A are
- B were
- C is
- D aren't

**Answer: C**

18. The meaning of 'a herculean task' is \_\_\_\_\_.

- A a task master
- B the courage of lion
- C hard job
- D boastful talk

**Answer: C**

19. My little sister is afraid \_\_\_\_\_ dogs.

- A of
- B on
- C for
- D from

**Answer: A**

## SBI PO Solved Previous Papers (Download PDF)

20. I \_\_\_\_\_ your company \_\_\_\_\_ his.

- A like, with
- B prefer, to
- C prefer, for
- D prefer, with

**Answer: B**



## Instructions [121 - 125]

Read the passage below and choose the correct answer for questions 126-130

The sun is the most direct source of energy. It powers the flow of wind and water cycle and sustains life. Plants use this energy to synthesize carbohydrates from simple substances like carbon dioxide and water. All the food is derived from the process of photosynthesis. In fact, energy by which all animals including human beings live is generated by the oxidation of the food produced by the plants. The sun contains in its core hydrogen nuclei moving at very great speeds. Whenever these nuclei collide and fuse to form a nucleus of heavier element it results in nuclear reactions. These reactions generate tremendous amount of energy. It is this energy that power sun.

The sun emits lights of different wavelengths. If sunlight is passed through a prism each of these wavelengths is refracted by a different amount. Violet has the shortest wavelength and red has the longest. The wavelength of green is midway between that of violet and red. Light with wavelength shorter than that of violet is called ultraviolet light. Light with wavelength longer than that of red light is called infrared light. About one third of the light from the sun is infrared. We know that nuclear reactions that go on in the interior of the sun liberate a large amount of energy. Nuclei of deuterium, which is the heavier isotope of hydrogen, collide in the sun's interior to produce helium. The energy liberated in these reaction fires the sun, which, in turn, emits lights of different wavelengths. Of these wavelengths, it is the infrared wavelengths that heat up the earth. The reaction in which the hydrogen in the sun is converted into helium is called a fusion reaction.

21. **Light with wave length shorter than that of violet is called**

- A** infrared
- B** green
- C** ultraviolet
- D** blue

**Answer: C**

22. **How are carbohydrates synthesized?**

- A** By the energy radiated from the sun
- B** From carbon dioxide and water
- C** By the green leaves of the plants
- D** By the process of oxidation

**Answer: B**

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23. **What is fusion reaction?**

- A** The process of combining two gases
- B** The reaction in which hydrogen is converted to helium in the sun
- C** The basis of nuclear reaction in the sun
- D** The process of deuterium colliding with the hydrogen

**Answer: B**

24. **What is the main idea of the first paragraph?**

- A** The sun is at the centre of our solar system
- B** There is tremendous activity at the core of the sun
- C** The sun sustains all life in our plane
- D** The sun radiates lights of all wavelengths

**Answer: C**

25. **What is deuterium?**

- A** A particle found in the sun
- B** An isotope of helium
- C** Catalyst for nuclear reaction
- D** A heavier isotope of hydrogen

**Answer: D**

### **SBI Clerk Previous Papers (Download PDF)**

#### **Instructions [126 - 130]**

Read the passage below and choose the correct answer for questions 131-135

"A little learning is a dangerous thing" - when Alexander Pope wrote this famous line he had in mind contemporary poetasters, versifiers, and critics who made themselves ridiculous on account of their shallow and superficial knowledge. But what was said about these people has a ring of universal truth. In every walk of life, be it arts or literature, science or politics, engineering or economics, law or administration, incomplete and superficial knowledge always leads to dangerous consequences. An ill-educated teacher will misguide the students. An incompetent surgeon would play with the lives of his patients. An ill-trained soldier will become a danger to his comrades rather than his enemies. A lawyer without a thorough knowledge of law would min his clients, similarly, an inefficient engineer will build

bridges which may fall under the weight of the vehicles on it. Therefore, we cannot rely on persons who are not proficient in their subject. Such persons are a danger to themselves and to others also. They never realize their shortcomings and hence make no progress. A man of little learning is more prone to be conceited than a really learned person, for the latter regards himself as a mere child gathering pebbles on the shores of the ocean of knowledge.

26. **What is the meaning of the word ridiculous?**

- A** Stupid
- B** Super
- C** Dangerous
- D** Contemporary

**Answer: A**

27. **What is not a walk of life?**

- A** Arts
- B** Science
- C** Engineering
- D** Ill-educated

**Answer: D**

28. **What leads to dangerous consequences?**

- A** Ring of universal truth
- B** Incomplete and superficial knowledge
- C** Different walks of life
- D** Ocean of knowledge

**Answer: B**

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29. **Who will misguide?**

- A** A professional
- B** An ill-trained person
- C** A child gathering pebbles

**D** A trained person

**Answer: B**

30. **Who is a mere child gathering pebbles on the shore of the ocean of knowledge?**

**A** A man of little learning

**B** A really learned person

**C** A conceited man

**D** A person who is not proficient in his subject

**Answer: B**

**Instructions [131 - 135]**

Read the passage below and choose the correct answer for questions 136-140

As long as 340 BC, the Greek philosopher Aristotle in his book 'On the Heavens', was able to put forward two good statements for believing that the earth was a round sphere rather than a flat plate. First he realised that eclipses of the moon were caused by the earth coming between the sun and the moon. The earth's shadow on the moon was always round, which would be true only if the earth was spherical. If the earth had been a flat disc, the shadow would have been elongated and elliptical, unless the eclipse always occurred at a time when the sun was directly under the centre of the disc. Second, the Greeks knew from their travels that the North star appeared lower in the sky when viewed in the South than it did in the more northerly regions (since the North star lies over the North pole), it appears to be directly above an observer at the North pole, but to someone looking from the equator, it appears to lie just at the horizon, From the difference in the apparent position of the North star in Egypt and Greece, Aristotle estimated the distance around the earth was 400,000 stadia.

31. **Aristotle belonged to which country?**

**A** Istanbul

**B** Greece

**C** Egypt

**D** Turkey

**Answer: B**

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32. **What does put forward mean?**

**A** Propound

**B** Profound

**C** Discover

**D** Deny

**Answer: A**

33. The Greeks found that the North star appeared lower in the sky \_\_\_\_\_

**A** when viewed from the North pole

**B** when they travelled

**C** when viewed in the South

**D** from the book "on the heavens".

**Answer: C**

34. The North star appears to be directly above an observer \_\_\_\_\_

**A** at the North pole

**B** at the Equator

**C** on the Horizon

**D** at the South pole

**Answer: A**

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35. The meaning of the word elongated is

**A** short and rectangular

**B** square

**C** long and thin

**D** spherical

**Answer: C**

### **Instructions [136 - 140]**

Read the passage below and choose the correct answer for questions.

The Hyperloop is a proposed mode of passenger and freight transportation, first used to describe an open source vactrain design released by a joint team from Tesla and SpaceX. Hyperloop is described as a sealed tube or system of tubes with low air pressure through which a pod may travel substantially free of air resistance or friction. The Hyperloop could potentially convey people or objects at airline or hypersonic speeds while being energy efficient compared with existing high-speed rail systems. This, if implemented,

may reduce travel times compared to train and airplane travel over distances of under approximately 1,500 kilometers (930 miles).

Elon Musk first publicly mentioned the Hyperloop in 2012. His initial concept incorporated reduced-pressure tubes in which pressurized capsules ride on air bearings driven by linear induction motors and axial compressors. The Hyperloop Alpha concept was first published in August 2013, proposing, and examining a route running from the Los Angeles region to the San Francisco Bay Area, roughly following the Interstate 5 corridor. The Hyperloop Genesis paper conceived of a hyperloop system that would propel passengers along the 350-mile (560 km) route at a speed of 760 mph (1,200 km/h), allowing for a travel time of 35 minutes, which is considerably faster than current rail or air travel times. Preliminary cost estimates for this LA-SF suggested route were included in the white paper - US\$6 billion for a passenger-only version, and US\$7.5 billion for a somewhat larger-diameter version transporting passengers and vehicles. However, transportation analysts expressed doubts that the system could be constructed on that budget, including some predictions that the Hyperloop would be several billion dollars over budget once construction, development and operation costs are taken into consideration.

The Hyperloop concept has been explicitly "open-sourced" by Musk and SpaceX, and others have been encouraged to take the ideas and further develop them. To that end, a few companies have been formed, and several interdisciplinary student-led teams are working to advance the technology. SpaceX built an approximately 1-kilometer-long (0.62 mi) subscale track for its pod design competition at its headquarters in Hawthorne, California. TUM Hyperloop set the world record of 463 km/h (288 mph) in July 2019 during the Hyperloop pod competition at SpaceX. Virgin Hyperloop conducted the first human trial in November 2020 at its test site in Las Vegas.

36. Which of the following is not true about Hyperloop?

- A It is lacking in investment
- B It is considerably faster than current rail or air travel
- C It is an open-source concept
- D It is a proposed mode of passenger and freight transportation

**Answer: A**

37. The Hyperloop Alpha concept proposed

- A an open-source concept
- B the Hyperloop pod competition at SpaceX
- C that the Hyperloop would be several billion dollars over budget
- D a route running from the Los Angeles region to the San Francisco Bay Area

**Answer: D**

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38. Choose the in-correct sentence.

- A** The Hyperloop concept has been explicitly "open-sourced" by Musk and SpaceX
- B** The Hyperloop Alpha concept was first published in August 2015
- C** TUM Hyperloop set the world record of 463 km/h (288 mph) in July 2019
- D** The Hyperloop is a proposed mode of passenger and freight transportation

**Answer: B**

39. "open-sourced" implies that

- A** considerably faster than current rail or air travel
- B** others are encouraged to take the ideas and further develop them
- C** several billion dollars over budget
- D** None of the above

**Answer: B**

40. What did Virgin Hyperloop do in November 2020?

- A** Won the pod competition at SpaceX
- B** Set the world record of 463 km/h (288 mph)
- C** Built an approximately 1-kilometer-long (0.62 mi) subscale track for its pod design
- D** Conducted the first human trial

**Answer: D**

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### **Mathematical Ability**

41. If  $m \neq 0, n^2 \neq 1$  and  $2^{m^{a^2}} = (2^m)^{n^2}$  then 'm' in terms of 'n' is

- A**  $(n^{n^2-1})^2$
- B**  $n^{n^2-1}$
- C**  $n^{\left(\frac{1}{n^2-1}\right)}$
- D**  $n^{\left(\frac{2}{n^2-1}\right)}$

**Answer: D**



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42. If  $2^x = 4^y = 16^z$  and  $xyz = 1728$ , then  $5x + 3y + 2z =$

- A 84
- B 168
- C 47
- D 94

**Answer: B**

43. In a mixture of 48 litres of milk and water the ratio of milk and water is 5 : 3. If 2 more litres of water is added to this mixture, then the ratio of milk to water in this new mixture is

- A 2 : 1
- B 4 : 3
- C 5 : 4
- D 3 : 2

**Answer: D**

44. A bag with 200 coins consists of 10 rupee, 5 rupee and 2 rupee coins whose values are in the ratio 10 : 15 : 8. Then number of 5 rupees coins in the bag is

- A 75
- B 80
- C 84
- D 74

**Answer: A**

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45. If Rs. 19,200 is divided between 'P', 'Q' and 'R' in such that for every rupee that 'P' has, 'Q' has 20 paise, and for every rupee that 'Q' has, 'R' has 40 paise, then the share of 'R' in rupees is

- A 720
- B 1200
- C 1620



**D** 6200

**Answer: B**

46.  $\sqrt{\sqrt{49} + \sqrt{16} + 5} =$

**A**  $\sqrt{11}$

**B**  $\sqrt{18}$

**C**  $\sqrt{15}$

**D**  $\sqrt{16}$

**Answer: D**

47.  $\sqrt[3]{10^2 \sqrt{625}}$

**A**  $\sqrt{35}$

**B**  $\sqrt{17}$

**C** 5

**D**  $\sqrt{19}$

**Answer: C**

[SSC CHSL Previous Question papers \(download pdf\)](#)

48. If  $x = \sqrt{9} + \sqrt{25}$  and  $y = \sqrt{121} + \sqrt{4}$ , then

**A**  $x < y$

**B**  $x > y$

**C**  $x = y$

**D**  $x = 2y$

**Answer: A**

49. The number of zeros required to write the integers 1 to 200 (both inclusive) is

**A** 40

**B** 41

**C** 32

**D** 31

**Answer: D**

50. The least 5 digit number that leaves the remainder 17 when divisible by 18, 24, 30 is

**A** 10035

**B** 10067

**C** 10075

**D** 10097

**Answer: D**

### SSC CHSL Free Mock Test

51. A person spent  $\frac{2}{9}$ th of his salary on house rent,  $\frac{2}{5}$ th of the remaining amount on food,  $\frac{2}{3}$ rd of the remaining amount on miscellaneous and rest he saved. If the amount spent on miscellaneous is Rs.13,300, then the amount he spent on house rent, in rupees is

**A** 8500

**B** 9500

**C** 10500

**D** 11500

**Answer: B**

52. If  $x : y : z = 3 : 4 : 5$ , then  $\frac{x}{yz} : \frac{y}{zx} : \frac{z}{xy}$

**A** 12 : 20 : 15

**B** 20 : 15 : 12

**C** 9 : 16 : 25

**D** 25 : 16 : 9

**Answer: C**

53.  $16 [42 - \{35 - (17 - 4 - 7) - 5\} - 2] =$

**A** 320

**B** 400

**C** 480

**D** 496

**Answer: C**

### SSC CGL Free Mock Test

54. The ascending order of the fractions

$\frac{97}{103}, \frac{99}{105}, \frac{101}{108}, \frac{103}{110}$  is

**A**  $\frac{103}{110} < \frac{101}{108} < \frac{97}{103} < \frac{99}{105}$

**B**  $\frac{101}{108} < \frac{97}{103} < \frac{103}{110} < \frac{99}{105}$

**C**  $\frac{103}{110} < \frac{97}{103} < \frac{101}{108} < \frac{99}{105}$

**D**  $\frac{101}{108} < \frac{103}{110} < \frac{97}{103} < \frac{99}{105}$

**Answer: D**

55. If  $33\frac{3}{5}$  of  $29\frac{3}{4}$  of ' $x$ ' is 357, then  $x =$

**A**  $\frac{1500}{7}$

**B**  $\frac{20000}{7}$

**C**  $\frac{25600}{7}$

**D**  $\frac{30000}{7}$

**Answer: C**

56. In an election between two candidates, one got 68% of votes and won by a difference of 3240 votes. If there are no invalid votes, then the total number of votes polled is

**A** 9400

**B** 9000

**C** 8600

**D** 8800

**Answer: B**

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57. A man lost  $12\frac{1}{2}\%$  of his money in a business. After spending 70% of the remaining money, if he is left with Rs. 210, then the amount of money (in Rs.) he invested in that business is

- A 840
- B 780
- C 800
- D 820

**Answer: C**

58. By selling two articles for a sum of Rs 17,700 a dealer makes a profit of 15% on the first article and a loss of 15% on the second. On the whole if he gets a net loss of Rs. 300, then the cost price of the first article (in rupees) is

- A 18,000
- B 14,000
- C 10,000
- D 8,000

**Answer: D**

59. Two successive profits of 10% and 5% are equal to a single profit of

- A  $16\frac{1}{2}$
- B 16%
- C 15%
- D  $15\frac{1}{2}$

**Answer: D**

### SSC CGL PREVIOUS PAPERS (download pdf)

60. A trader marks his goods at 25% above his cost price and allows a discount of 12.5%. Then the percentage of profit he makes is

- A  $8\frac{3}{8}$
- B  $9\frac{3}{8}$
- C  $9\frac{1}{4}$
- D  $9\frac{5}{8}$

**Answer: B**

61. Four persons 'P', 'Q', 'R', and 'S' entered into a partnership. 'P' subscribed  $\frac{1}{3}$  of the capital for 4 months. 'Q' subscribed  $\frac{1}{4}$  of the capital for 6 months. 'R' subscribed  $\frac{1}{6}$  of the capital for 8 months and 'S' the rest for 3 months. Then the share of 'S' out of a total profit of Rs. 1,18,000 at the end of the year (in Rs.) is

- A Rs. 12,000
- B Rs. 18,000
- C Rs. 15,000
- D Rs. 11,000

**Answer: B**

62. 'P' and 'Q' entered into a partnership with Rs. 20,00,000 and Rs 40,00,000 respectively. After four months, they invested Rs. 1,00,000 each in it. If the annual profit is Rs. 18,40,000, the difference between the shares of profits of 'P' and 'Q' (is Rs.) is

- A 5,60,000
- B 6,50,000
- C 6,00,000
- D 5,80,000

**Answer: C**

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63. 'P', 'Q' and 'R' started a business. The capital of 'P' is four-fifth of the capitals of 'Q' and 'R' together and the capital of 'Q' is one third of the capital of 'P' and 'R' together. Then the share (in Rs.) of R in their earned profit of Rs. 1,08,000 is

- A 33,000
- B 30,000
- C 32,000
- D 36,000

**Answer: A**

64. Two pipes 'P' and 'Q' can respectively fill a cistern in 48 minutes and 60 minutes respectively. Both the pipes are opened for 20 minutes and then the pipe 'Q' is turned off. Then the time ,(in minutes) it takes further to fill the cistern is

- A 32

**B** 18

**C** 12

**D** 16

**Answer: C**

65. Two pipes can separately fill a cistern in 12 minutes and 16 minutes respectively and a waste pipe can drain it at 20 gallons per minutes, If all the three pipes are opened simultaneously the cistern is filled in 24 minutes. Then the capacity of the cistern, in gallons, is

**A** 240

**B** 280

**C** 192

**D** 260

**Answer: C**

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66. Two persons 'A' and 'B' together can finish a piece of work in 16 days while 'B' and 'C' together can complete the same work in 20 days. If 'A' , 'B' , 'C' work together, the same work is completed in 12 days, then the number of days required for 'A' alone to complete the work is

**A** 30

**B** 25

**C** 28

**D** 24

**Answer: A**

67. If 'P' and 'Q' can do a piece of work in 18 days, 'Q' and 'R' can do it in 24 days, 'P' and 'R' can do it in 36 days, then the time (in days) needed by 'P' alone to finish that work, is

**A** 45

**B** 48

**C** 24

**D** 32

**Answer: B**

68. A window is in the shape of a rectangle surmounted by a semicircle on the length side of the rectangle. If the dimensions of the sides of the rectangle are 16 cm and 6 cm, then the area of that window, in square centimetres, is

A  $16(3 + \pi)$

B  $24(3 + \pi)$

C  $32(3 + \pi)$

D  $40(3 + \pi)$

**Answer: C**

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69. If the perimeter and diagonal of a rectangle are 18 m and 5 m respectively, then the area of that rectangle (in sq. meter) is

A 56

B 36

C 28

D 48

**Answer: C**

70. If a metallic solid sphere of diameter 6 cm is drawn into a uniform wire of diameter 4 mm, then the length (in meters) of the wire so drawn is

A 6

B 8

C 10

D 9

**Answer: D**

71. Three circles of radius 8 cm each are touching each other externally. Then the area (in sq. cm) inside the triangle formed by joining their centres that is covered by the 3 circles is

A  $32\pi$

B  $64\pi$

C  $\frac{32}{3}\pi$

**D**  $\frac{64}{3}\pi$

**Answer: A**

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72. If the angle of a sector of a circle of radius 21 cm is  $75^\circ$ , then the perimeter of that sector approximately (in cms)

- A** 72
- B** 69.5
- C** 63
- D** 79.5

**Answer: B**

73. The floor area of a conical shaped tent is 154 sq.m and its vertical height is 24m. If each square meter of canvas costs Rs. 15.50, the approximate cost of the canvas needed for the tent (in Rs) is

- A** 8525
- B** 9525
- C** 8275
- D** 9250

**Answer: A**

74.  $15^{(10)} = \dots\dots\dots(2)$

- A** 1110
- B** 0111
- C** 1011
- D** 1111

**Answer: D**

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75. For  $a, b \in \mathbb{Z}^+$ , define  $a*b$  as the remainder obtained when  $a^2b$  is divided by 23. Then  $7*13 =$

- A** 13



**B** 14

**C** 15

**D** 16

**Answer: D**

76. The contra positive of  $p \rightarrow (q \rightarrow r)$  is equivalent to

**A**  $(\sim q \wedge r) \rightarrow p$

**B**  $(q \wedge \sim r) \rightarrow \sim p$

**C**  $(q \wedge \sim r) \rightarrow p$

**D**  $p \rightarrow (q \wedge \sim r)$

**Answer: B**

77. If  $f(x) = \frac{x+1}{x-1}$  for  $x \neq 1$ , then  $f \circ (f \circ f)(x) =$

**A**  $f(x)$

**B** 1

**C**  $\frac{1}{f(x)}$

**D** 0

**Answer: A**

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78. The equation of the straight line passing through the point (2, -3) and making equal intercepts on the coordinate axes, is

**A**  $x - y - 5 = 0$

**B**  $x + 2y + 4 = 0$

**C**  $2x - y - 7 = 0$

**D**  $x + y + 1 = 0$

**Answer: D**

79.  $\frac{1}{\sin 10^\circ} - \frac{\sqrt{3}}{\cos 10^\circ} =$

**A**  $\frac{1}{\sqrt{3}}$

**B** 2

**C** 3

**D** 4

**Answer: D**

80. When  $ax^2 + bx + 2$  is divided by  $x - 1$  and  $x + 2$  if the remainders are 6 and 0 respectively, then the quadratic equation formed with 'a' and 'b' as its roots is

**A**  $x^2 + 2x - 3 = 0$

**B**  $x^2 - 4x + 3 = 0$

**C**  $x^2 + 4x + 3 = 0$

**D**  $x^2 - 5x + 6 = 0$

**Answer: B**

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81. If the system of equations  $cx + 3y = c - 3$  and  $12x + cy = c$  has infinitely many solutions, then the value of 'c' is

**A** 5

**B** 4

**C** 6

**D** -3

**Answer: C**

82. The sum of all the odd integers between 2 and 100 is

**A** 2400

**B** 2499

**C** 2500

**D** 2599

**Answer: B**

83. If in a geometric progression, the difference between  $5^{th}$  term and  $4^{th}$  term is 576 and the difference between its  $2^{nd}$  term and first term is 9, then the  $6^{th}$  term of that progression is

- A 2172
- B 2972
- C 3076
- D 3072

**Answer: D**

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84.  $A = \begin{bmatrix} 2 & 2 & 1 \\ 1 & 2 & 2 \\ 2 & 1 & 2 \end{bmatrix} \Rightarrow (Adj A)^{-1} =$

- A  $\frac{1}{5} A$
- B  $5A$
- C  $\frac{1}{4} A$
- D  $4A$

**Answer: A**

85. The incentre of the triangle formed by the points  $(2, 3)$ ,  $(-2, -5)$  and  $(-4, 6)$  is

- A  $(1, -2)$
- B  $(-1, 2)$
- C  $(1, 2)$
- D  $(-1, -2)$

**Answer: B**

86. If the arithmetic mean of  $x_1, x_2, \dots, x_n$  is 51, then the arithmetic mean of  $7x_1 - 21, 7x_2 - 21, 7x_3 - 21, \dots, 7x_n - 21$  is

- A 30
- B 153

**C** 336

**D** 357

**Answer: C**

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87. The median of 12, 14, 10, 16, 8, 6, 18, 15, 11 is

**A** 11

**B** 12

**C** 10

**D** 14

**Answer: B**

88. The mode of 42, 36, 44, 38, 36, 40, 45, 36 is

**A** 40

**B** 42

**C** 36

**D** 38

**Answer: C**

89. If the median of some numbers is 16.8 and their arithmetic mean is 18.4, then their mode is

**A** 13.2

**B** 12.4

**C** 12.6

**D** 13.6

**Answer: D**

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90. The mean deviation of 1, 2, 3, 4, 2 about their arithmetic mean is

**A** 1.8

**B** 0.84

**C** 0.88

**D** 1.6

**Answer: C**

91. The standard deviation of four consecutive positive integers is

**A**  $\frac{5}{\sqrt{2}}$

**B**  $\frac{5}{2}$

**C**  $\sqrt{\frac{5}{2}}$

**D**  $\frac{\sqrt{5}}{2}$

**Answer: D**

92. The arithmetic mean of the 10 numbers is 6, but it was later observed that one of the numbers was misread as 9. After correcting the wrong entry, if their mean was 7, then actual value of that wrong entry is

**A** 20

**B** 17

**C** 19

**D** 18

**Answer: C**

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93. If a problem in probability is given to 3 students 'P', 'Q' and 'R' whose chances of solving it are  $\frac{1}{3}$ ,  $\frac{3}{4}$  and  $\frac{1}{2}$  respectively, then the probability that the problem will be solved is

**A**  $\frac{3}{4}$

**B**  $\frac{2}{3}$

**C**  $\frac{4}{5}$

**D**  $\frac{5}{6}$

**Answer: A**

94. The probability that a student 'A' succeeds in a test is 0.85 and the probability that 'B' succeeds in the same test is 0.75. Then the probability that exactly one of them succeeds in that test is

A  $\frac{13}{20}$

B  $\frac{13}{80}$

C  $\frac{13}{40}$

D  $\frac{17}{40}$

**Answer: C**

95. 'A' and 'B' are two sets such that  $n(A) = 4$  and  $n(B) = 2$ . If a relation from A to B is selected at random, then the probability that their relation is not a function is

A  $\frac{7}{8}$

B  $\frac{1}{16}$

C  $\frac{3}{16}$

D  $\frac{15}{16}$

**Answer: D**

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