Grand Test:
CHT1-171202

SSC CHSL - TIER-1

GENERAL INTELLIGENCE

1. Select the odd word :
   (1) Compress (2) Condense
   (3) Concise (4) Convert

Directions (Q. 2-3): In each of the following questions, choose the correct alternative from the given ones that will complete the series.

2. KKMLLNMMONNPOOQP?
   (1) PQ (2) ST
   (3) QV (4) PR
3. 30, 24, 19, 15, 12, ?
   (1) 6 (2) 8
   (3) 10 (4) 11

4. If 10 boys walk 10 km in 10 days, then how many days it will take for 3 boys to walk 10 km?
   (1) 1 (2) 3
   (3) 6 (4) 10
5. From the given alternatives, select the word which cannot be formed using the letters of the given word :
   FRAGMENT
   (1) RAGE (2) TEAR
   (3) MEAN (4) RACE
6. What sign should be placed in the question mark?
   $5 - 6 + 3 \times 12 \ \underline{?} \ 2 = 17$
   (1) + (2) ×
   (3) – (4) None of these
7. In this question, select the missing number from the given responses.

5	4	3	8	9	4
20	9	24	11	?	13

   (1) 36 (2) 117
   (3) 52 (4) 26
8. Ram and Shyam started from a fixed place. Ram moves 3 km to the North and turns right, then walks 4 km. Shyam moves towards West and walks 5 km, then turns to right and walks 3 km. How far Ram is from Shyam?
   (1) 13 km (2) 16 km
   (3) 9 km (4) 10 km
9. One statement is given followed by two Assumptions, I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given assumptions can definitely be drawn from the given statement. Indicate your answer,
   Statements :
   All the people in Kerala are literate.
   Assumption I : People of Kerala are well educated and cultured.
   Assumption II : People of Kerala are hard working and sincere.
   (1) Only I is implicit
   (2) Only II is implicit
   (3) Both I and II are implicit
   (4) Neither I nor II is implicit

Directions (Q. 10-12): In each of the following questions, select the related letter/word/number from the given alternatives.

10. India : Mango : : New Zealand : ?
    (1) Apples (2) Kiwi
    (3) Grapes (4) Bananas
11. HJLN : PRTV : : BDFH : ?
    (1) JMOR (2) JLNP
    (3) KLOR (4) JKOR
12. DLOC : ECI : : TOH : ?
    (1) EET (2) EAT
    (3) AET (4) ETA

13. In this question, choose the numbers similar to the group of numbers given.
    580, 265, 373
    (1) 366 (2) 490
    (3) 428 (4) 383

Directions (Q. 14-17): In each of the following questions, find the odd number/ letters/ number pair from the given alternatives.

14. (1) Orange (2) Apple
    (3) Lemon (4) Grapes
15. (1) Diamond (2) Gold
    (3) Silver (4) Platinum

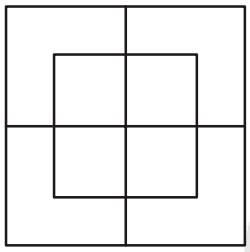
16. (1) 45, 6, 7 (2) 15, 3, 4
(3) 35, 5, 6 (4) 23, 4, 5

17. (1) 725 (2) 840
(3) 632 (4) 475

18. In the following question letters are skipped between by following a pirticular rule. Which of the following series obsevers rule?
(1) BDFIJ (2) DGJLM
(3) BDHPF (4) ACFHJ

19. Which one of the given responces would be a meaningful order of the following words?
1. TYPE 2. PRINT
3. OPEN 4. SAVE
5. CLOSE
(1) 3, 4, 1, 2, 5 (2) 3, 5, 4, 2, 1
(3) 3, 1, 4, 2, 5 (4) 3, 2, 1, 4, 5

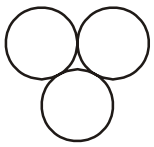
20. How many rectangles are there in the given figure?

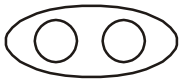
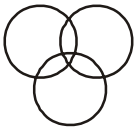


(1) 6 (2) 4
(3) 18 (4) 10

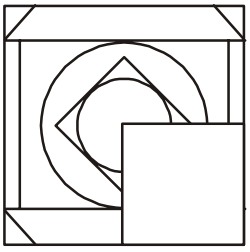
Directions (Q. 21-23): In each of the following questions, identify the diagram that best represents the relationship among classes given below:

21. Government servants, Lecturers, Doctors

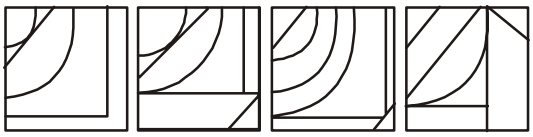
(1)  (2) 

(3)  (4) 

22. Which answer figure will complete the pattern in the question figure?
Question Figure :

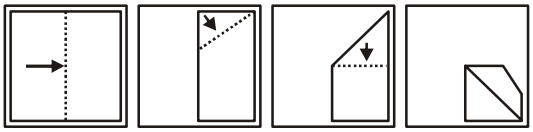


Answer Figure :

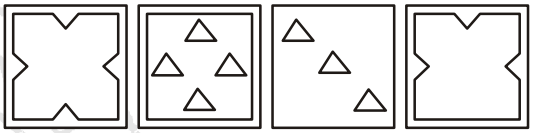


(1) (2) (3) (4)

23. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.
Question Figures :



Answer Figures :



(1) (2) (3) (4)

24. Identify the alternative which resembles the mirror - image of the given word.

SECRETARY

(1) SECRETARY (2) YRATERCES
(3) YRATERCES (4) SECRETARY

25. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of matrix I are numbered from 0 to 4 and that of matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column e. g., 'A' can be represented by 00, 11, 20 etc. and 'P' can be represented by 59, 68, 75, etc. Similarly, you have to identify the set for the word 'LOAD'

Matrix I

	0	1	2	3	4
0	A	B	C	D	E
1	B	A	E	D	C
2	A	C	D	B	E
3	E	A	D	C	B
4	C	E	A	D	B

Matrix II

	5	6	7	8	9
5	L	M	N	O	P
6	M	L	N	P	O
7	P	L	M	N	O
8	P	O	M	N	L
9	O	M	P	L	N

(1) 55, 42, 86, 03 (2) 66, 40, 31, 13
(3) 89, 86, 11, 99 (4) 76, 95, 20, 32

ENGLISH LANGUAGE

Directions (Q. 26-27): In the following questions, out of four alternatives, choose the one which best expresses the meaning of the given word as your answer.

26. **Sham**
(1) Real (2) Genuine
(3) Authentic (4) Fake
27. **Arduous**
(1) Troublesome (2) Gloomy
(3) Difficult (4) Perilous

Directions (Q. 28-30): In the following questions, choose the word opposite in meaning to the given word as your answer.

28. **Prudent**
(1) Dunce (2) Silly
(3) Foolish (4) Careless
29. **Traditional**
(1) Avant - garade (2) Present
(3) Unusual (4) Fresh
30. **Turbulent**
(1) Harmony (2) Gusty
(3) Calm (4) Windy

Directions (Q. 31-33): In the following questions, four alternatives are given for the Idiom/ Phrase printed in BOLD in the sentence. Choose the alternative which best expresses the meaning of the Idiom/ Phrase.

31. The departmental store is one **around the clock.**
(1) at different timings (2) early morning
(3) day and night (4) throughout the afternoon
32. Through the reporter's efforts, many unknown facts have **come to light.**
(1) ignited (2) flared up
(3) brightened (4) been revealed
33. **I do not see eye to eye with you** in this matter.
(1) to give a correct decision
(2) to obtain suitable punishment
(3) to have the same eyesight
(4) to have the same opinion

Directions (Q. 34-35): In the following questions, a part of the sentence is printed in bold. Below are given alternatives to the BOLD part at (1), (2), (3) which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is (4)

34. She does not tell lies, **doesn't she**?
(1) isn't she? (2) does she?
(3) didn't she? (4) No improvement
35. Have you ever been **in** New York?
(1) at (2) to
(3) with (4) No improvement

Directions (Q. 36-40): In the following questions, out of the four alternatives, choose the one which can be substituted for the given words/ sentence.

36. A person who drives our motor cars.
(1) Driver (2) Chauffeur
(3) Conductor (4) Lift-operator
37. The headmaster brought back to mind the outstanding achievements of the school.
(1) remembered (2) reminded
(3) reminisced (4) recalled
38. Lack of feeling
(1) Empathy (2) Apathy
(3) Sympathy (4) Pity
39. Accidental good fortune
(1) Serendipity (2) Good luck
(3) Chance (4) Fluke
40. Short speech or poem given at the end of a play or a book
(1) Epilogue (2) Epigram
(3) Epitaph (4) Epicure

Directions (Q. 41-43): In the following questions, four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word as your answer.

41. (1) Necesary (2) Necessarry
(3) Necesarry (4) Necessary
42. (1) Narsicissism (2) Narcicicism
(3) Narcissism (4) Narcisism
43. (1) Repertoire (2) Repartoire
(3) Repertwah (4) Repertiore

Directions (Q. 44-45): In the following questions, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error. The number of that part is your answer. If a sentence is free from errors, your answer is (4) i.e. No error.

44. Most of my friends (1)/ head the earthquake (2)/ but I was totally unaware of it. (3)/ No error. (4)
45. He walks (1)/ as if the earth (2)/ belonged to him. (3)/ No error. (4)

Directions (Q. 46-50): In the following questions, sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four as your answer.

46. Students are not prepared _____ that kind of question.
(1) to (2) wtih
(3) for (4) on
47. Communism and Socialism have always _____ the sermons of economic equality.
(1) said (2) instructed
(3) preached (4) obeyed
48. Robert _____ Ali of his support.
(1) assure (2) ensured
(3) insured (4) assured
49. The students are told to _____ these words in the dictionary.
(1) look down (2) look up
(3) look into (4) look after
50. Rama took his _____ for the wrong done to him.
(1) avenge (2) vengeance
(3) revenge (4) ravage

QUANTITATIVE APTITUDE

51. Tom is chasing Jerry. In the same interval of time Tom jumps 8 times while Jerry jumps 6 times. But the distance covered by Tom in 7 jumps in equal to the distance covered by Jerry in 5 jumps. The ratio of speed of Tom and Jerry is
(1) 48 : 35 (2) 28 : 15
(3) 24 : 20 (4) 20 : 21
52. The average marks secured by 36 students was 52. But it was discovered that an item 64 was misread as 46. What is the correct mean of marks?
(1) 54 (2) 53.5
(3) 53 (4) 52.5
53. Kamala bought a bicycle for Rs. 1,650. She had to sell it at a loss of 8%. She sold it for
(1) Rs. 1,581 (2) Rs. 1,518
(3) Rs. 1,510 (4) Rs. 1,508
54. In a village 30% of the population is literature. If the total population of the village is 6,600, then the number of illiterate is
(1) 1980 (2) 4620
(3) 2200 (4) 3280
55. Find the difference between the compound interest and the simple interest on Rs. 32,000 at 10% p.a. for 4 years.
(1) Rs. 2051.20 (2) Rs. 2052.50
(3) Rs. 2025.20 (4) Rs. 2501.20
56. If each edge of a square be doubled, then the increase percentage in its area is
(1) 200% (2) 250%
(3) 280% (4) 300%
57. A solid metallic spherical ball of diameter 6 cm is melted and recast into a cone with diameter of the base as 12 cm. The height of the cone is
(1) 2 cm (2) 3 cm
(3) 4 cm (4) 6 cm
58. A hemispherical bowl of internal radius 15 cm contains a liquid. The liquid is to be filled into cylindrical shaped bottles of diameter 5 cm and height 6 cm. The number of bottles required to empty the bowl is
(1) 30 (2) 40
(3) 50 (4) 60
59. If $a + b + c = 0$ then the value fo $(a + b - c)^2 + (b + c - a)^2 + (c + a - b)^2$ is
(1) 0 (2) 8abc
(3) $4(a^2 + b^2 + c^2)$ (4) $4(ab + bc + ca)$
60. If $x = 2015$, $y = 2014$ and $z = 2013$, then value of $x^2 + y^2 + z^2 - xy - yz - zx$ is
(1) 3 (2) 4
(3) 6 (4) 2
61. If $x > 1$ and $x + \frac{1}{x} = 2\frac{1}{12}$, then the value of $x^4 - \frac{1}{x^4}$ is
(1) $\frac{58975}{20736}$ (2) $\frac{59825}{20736}$
(3) $\frac{57985}{20736}$ (4) $\frac{57895}{20736}$
62. AD is the median of a triangle ABC and O is the centroid such that AO = 10 cm. Length of OD (in cm) is
(1) 2 (2) 4
(3) 5 (4) 7
63. The circles C_1 and C_2 touch each other internally at P. Two lines PCA and PDB meet the circles C_1 in C, D and C_2 in A, B respectively. If $\angle BDC = 120°$, then the value of $\angle ABP$ is equal to
(1) 60° (2) 80°
(3) 100° (4) 120°
64. DE is a tangent to the circumcircle of ΔABC at the vertex A such that DE || BC. If AB = 17 cm, then the length of AC is equal to
(1) 16.0 cm (2) 16.8 cm
(3) 17.3 cm (4) 17 cm
65. If $\sin(\theta + 18°) = \cos 60°$ $(0 < \theta < 90°)$, then the value of $\cos 5\theta$ is
(1) $\frac{1}{2}$ (2) 0
(3) $\frac{1}{\sqrt{2}}$ (4) 1

66. Let A, B, C, D be the angles of a quadrilateral. If they are concyclic, then the value of cos A + cos B + cos C + cos D is
(1) 0 (2) 1
(3) –1 (4) 2

67. If a pole of 12 m height casts a shadow of $4\sqrt{3}$ m long on the ground, then the sun's angle of elevation at that instant is
(1) 30° (2) 60°
(3) 45° (4) 90°

68. The digit in unit's place of the product 49237 × 3995 × 738 × 83 × 9 is
(1) 0 (2) 7
(3) 5 (4) 6

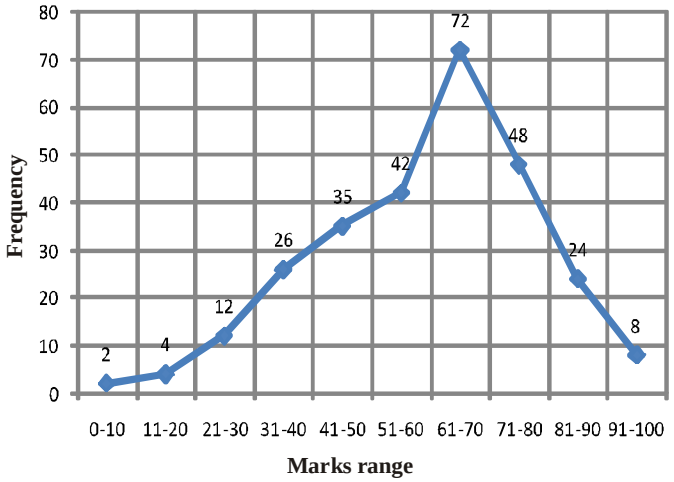
69. If the Universal Set U = {1, 2, 3, 4, 5, 6, 7, 8} and A = {1, 2, 3, 4}, then A^C is equal to
(1) {5, 6, 7, 8} (2) {5, 6, 1, 2}
(3) {5, 6, 2, 3} (4) {5, 6, 3, 4}

70. Find the rath term of the following sequence :
$5 + 55 + 555 + \ldots\ldots\ldots\ldots T_n$
(1) $5\,(10^n - 1)$ (2) $5^n(10^n - 1)$
(3) $\frac{5}{9}(10^n - 1)$ (4) $\left(\frac{5}{9}\right)^n (10^n - 1)$

71. If diagonals of a rhombus are 24 cm and 32 cm, then perimeter of that rhombus is
(1) 80 cm (2) 84 cm
(3) 76 cm (4) 72 cm

Directions (Q. 72-75): The marks obtained by 273 examinees are shown by the frequency polygon. Given that mean marks is 59.5. Study the frequency polygon and answer the given questions.

Frequency of Marks obtained



72. The number of examinees getting more than average marks is
(1) 72 (2) 105
(3) 152 (4) 164

73. Percentage of the students who get above 80% marks is
(1) 9.81 (2) 10.53
(3) 11.28 (4) 11.72

74. Percentage of the students who got marks above 60% and below 80% is
(1) 43.95 (2) 48.39
(3) 51.06 (4) 56.84

75. If 40 is the pass marks, percentage of students failed is
(1) 14.56 (2) 15.84
(3) 16.11 (4) 17.25

GENERAL AWARENESS

76. The percentage of India's total population employed in agriculture is nearly
(1) 60% (2) 50%
(3) 70% (4) 80%

77. Which airport has been rated the best in Southern region and third among all the 5 airports in the country?
(1) Kempegowda International Airport
(2) Trivandrum International Airport
(3) Mangaluru International Airport
(4) Rajahmundry Airport

78. Which one of the following is not a photosynthetic pigment?
(1) Chlorophyll (2) Phycobilin
(3) Carotenoid (4) Anthocyanin

79. Which of the following is a fibrous protein?
(1) Haemoglobin (2) Albumin
(3) Keratin (4) Enzymes

80. Carolus Linnaeus System of classification is
(1) Natural (2) Artificial
(3) Binomial (4) Phylogenetic

81. The dimensional formula $ML^{-1}T^{-2}$ corresponds to
(1) Modulus of elasticity (2) Viscosity
(3) Moment of a force (4) Thrust

82. A wavelength of 0.3 m is produced in air and it travels at a speed of 300 m/s. Then it will be an
(1) Audible wave (2) Infrasonic wave
(3) Ultrasonic wave (4) Microwave

83. The Indian National Grid Computing Initiative for Scientific Engineering and Academic Community is named
(1) Ganga (2) SAGA
(3) Garuda (4) PARAM

84. When a bond is formed between two atoms, the energy of the system will
(1) increase (2) decrease
(3) remain the same (4) may increase or decrease

85. Water has maximum density at
(1) 100°C (2) 0°C
(3) 4°C (4) 273°C

86. Concentration of a material which is lethal to 50% animal is called
(1) LD_{50} (2) LC_{50}
(3) NOAEL (4) ADI

87. The Ocean with the largest surface area is
(1) Arctic Ocean (2) Atlantic Ocean
(3) Indian Ocean (4) Pacific Ocean

88. Which country won the 1st BRICS U - 17 foot ball tournament?
(1) India (2) China
(3) Brazil (4) Russia
(5) South Africa

89. Who discovered Cape of Good Hope in 1488?
(1) Magellan (2) Columbus
(3) Bartgholomew Dias (4) Vasco da gama

90. Who has been selected for the Mathrubhumi literary Award in recognition of his contribution to the filed of literature?
(1) Dr. M. K. Sanu (2) T. Padmanabhan
(3) Sukumar Azhikode (4) M. Leelavathy

91. Who is the founder of Jainism in India?
(1) Gautama (2) Mahavira
(3) Chandragupta (4) Ashoka

92. Which of the following cities will host the 2028 Summer Olympics?
(1) London (2) Paris
(3) Los Angeles (4) Berlin

93. Human Rights Day is observed on
(1) 10th March (2) 10th July
(3) 10th September (4) 10th December

94. Who was the painter of the famous painting called - 'Bharatmata'?
(1) Gagendranath Tagore
(2) Abanindranath Tagore
(3) Nandalal Bose
(4) Jamini Roy

95. Taxes are as certain as the death, because
(1) They constitute the major source of government revenue
(2) Government have no other source of revenue
(3) Most PSUs are run ineffeciently
(4) Government has its own budget constraints

96. The 'Slack Season' in the Indian Economy is
(1) March-April (2) September-December
(3) January-June (4) February-April

97. The relationship between the rate of interest and level of consumption was first visualized by
(1) Amartya K. Sen (2) Milton Friedman
(3) Irving Fisher (4) James Duesenberry

98. On October 18 Scientists developed a new optical sensor to detect vitamin …… deficiency.
(1) K (2) B_{12}
(3) A (4) B_6

99. Who has been appointed as the Ambassador of India to the UN conference on Disarmament in Geneva?
(1) Abul Majeed Khwaja
(2) Amandeep Singh Gill
(3) Vivek Gandhi
(4) Narendro Hirwani

100. Who among the following is the present CEO of the Unique Identification Authority of India (UIDAI)?
(1) Amitabh Kant (2) Ramesh Abhishek
(3) Ajay Bhushan Pandey (4) Aruna Sundararajan