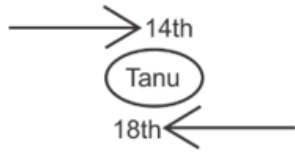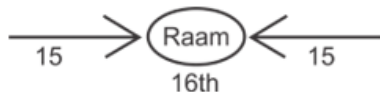# SSC CHSL SOLUTION PAPER - 01

Ques 1. ANS (B) Solution: Solution: upcoming next vowel of each letter.,

Ques 2. ANS (C) Solution: Solution: Reverse order of given word.
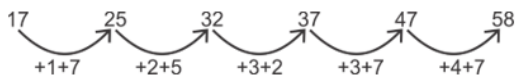
Ques 3. ANS (A) Solution:
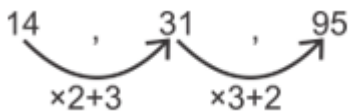

Total students = 14+17 = 31

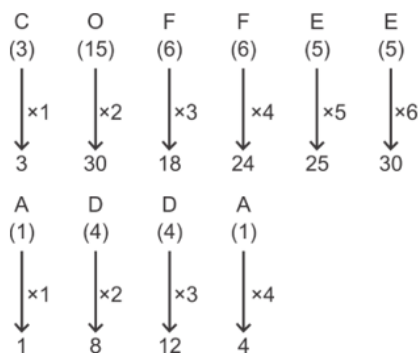Ques 4. ANS (B) Solution:

Ques 5. ANS (B) Solution:

Ques 6. ANS (B) Solution:

$9 \times 18 = 162$
$16 \times 32 = 512$

Ques 7. ANS (B) Solution:

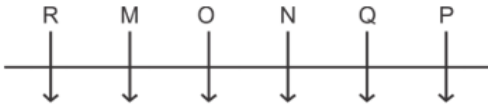Ques 8. ANS (D) Solution: Group of fish is called SCHOOL.

Ques 9. ANS (C) Solution:

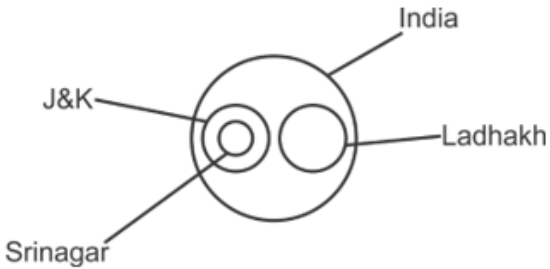$63 \div 3 \times 6 + 3 - 8$
$21 \times 6 + 3 - 8$
$126 + 3 - 8$
121

Ques 10. ANS (A) Solution:

R   M   O   N   Q   P

O is between R and Q

Ques 11. ANS (B) Solution:

India

J&K

Ladhakh

Srinagar

Ques 12. ANS (C) Solution: Solution: vowels (U, O, I, E, A) in decreasing order with their opposite alphabet.

Ques 13. ANS (A) Solution: Solution: Chemical name of water is dihydrogen oxide.

Ques 14. ANS (D) Solution:

103   108   118   133   153

+5   +10   +15   +20
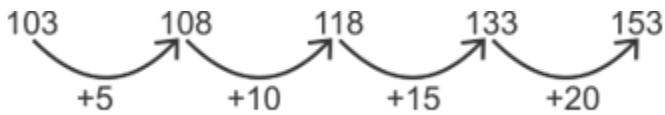
Ques 15. ANS (C) Solution:

$$5 + \left(\frac{14}{2}\right) \div 21 \times 9 - 5$$
$$5 + 3 - 5$$
$$3$$

Ques 16. ANS (D) Solution:

$(11+5) \times (11-5) = 96$
$(6+7) \times (7-6) = 13$
$(2+4) \times (4-2) = 12$

Ques 17. ANS (B) Solution: Solution: No. of triangles in given figure is 48.

Ques 18. ANS (B) Solution:

Ques 19. ANS (D) Solution:

Ques 20. ANS (A) Solution:

Ques 21. ANS (B) Solution:

Ques 22. ANS (D) Solution:

Ques 23. ANS (D) Solution:

Ques 24. ANS (D) Solution:

Ques 25. ANS (D) Solution:

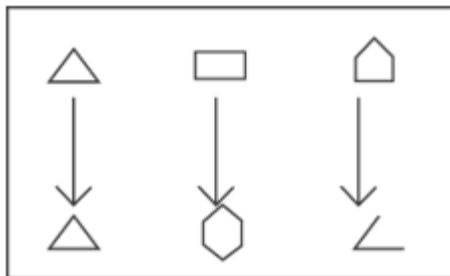Ques 26. ANS (D) Solution: Solution: In the inscription for the first time the name of Ashoka was found with titles like Devanampiya and Piyadassi.

Ques 27. ANS (D) Solution: Solution: The Indus Valley Civilisation (IVC), or Harappa Civilisation, was a Bronze Age civilisation (3300–1300 BCE; mature period 2600–1900 BCE) mainly in the northwestern regions of South Asia, extending from what today is northeast Afghanistan to Pakistan and northwest India.

Ques 28. ANS (C) Solution: Solution: In 1398, Timur invaded northern India, attacking the Delhi Sultanate ruled by Sultan Nasir-ud-Din Mahmud Shah Tughluq of the Tughlaq Dynasty.

Ques 29. ANS (D) Solution: Solution: Lord William Bentinck decided to make English as the medium of instruction according to the recommendations of Macaulay.

Ques 30. ANS (B) Solution: Solution: Nameri National Park is a national park in the foothills of the eastern Himalayas in the Sonitpur District of Assam, India, about 35 km from Tezpur.

Ques 31. ANS (D) Solution: Solution: The Dree Festival of Arunachal Pradesh is an agrarian celebration celebrated by the Apatani clan of Arunachal Pradesh.

Ques 32. ANS (C) Solution: Solution: Latitude is the angular distance north or south from the equator of a point on the earth's surface, measured on the meridian of the point. Each degree of latitude is approximately 69 miles (111 kilometers)

Ques 33. ANS (B) Solution: Solution: Saturn overtakes Jupiter as planet with most moons in solar system. Saturn now reigns as the solar system's "moon king". Twenty new moons have been found around Saturn, giving the ringed planet a total of 82. That beats Jupiter and its 79 moons. The solar system has a new winner in the moon department.

Ques 34. ANS (C) Solution: Solution: Kapildhara waterfall is located in the Amarkantak district of the central Indian state of Madhya Pradesh. It is situated on Narmada River.

Ques 35. ANS (B) Solution: Solution: Yakshagana is one of the most popular folk theatre forms of Karnataka. It is noted for its music, colourful costumes, vigorous dance movements, subtle expressions and extempore dialogues.

Ques 36. ANS (D) Solution: Solution: Part XV of the constitution of India consists of Articles on Elections.

Ques 37. ANS (C) Solution: Solution: In June 1948, the Government of India appointed the Linguistic Provinces Commission under the chairmanship of S K Dhar to examine the feasibility of this. The commission submitted its report in December 1948 and recommended the reorganisation of states on the basis of administrative convenience rather than linguistic factor.

Ques 38. ANS (D) Solution: Solution: Phillips curve shows the inverse relationship between unemployment and inflation rate.

Ques 39. ANS (A) Solution: Solution: An anemometer is an instrument used to measure the speed or velocity of air (gases) either in a contained flow, such as airflow in a duct, or in unconfined flows, such as atmospheric wind.

Ques 40. ANS (A) Solution: Solution: The value of acceleration due to gravity (g) on earth is maximum at poles and decreases as we go from poles to the equator and is minimum at the equator.

Ques 41. ANS (A) Solution: Solution: Sulphuric Acid is called "Oil of Vitriol" because earlier it was prepared by roasting green vitriol in an iron ore.

Ques 42. ANS (A) Solution: Solution: Insulin is a hormone made by the pancreas that allows your body to use sugar (glucose) from carbohydrates in the food that you eat for energy or to store glucose for future use.

Ques 43. ANS (B) Solution: Solution: Lipase is an enzyme in the body uses to break down fats in food so they can be absorbed in the intestines. Lipase is produced in the pancreas, mouth, and stomach.

Ques 44. ANS (D) Solution: Solution: Sugarcane is grass of the family Poaceae, primarily cultivated for its juice from which sugar is processed.

Ques 45. ANS (B) Solution: Solution: The Book titled "Finding the Gaps" is authored by Simon Taufel. He recalls 2009 Lahore attack in this book.

Ques 46. ANS (D) Solution: Solution: Jammu and Kashmir has achieved the highest road length in the country this year so far under a Centre's rural roads' programme with the completion of around 11,400 kilometres covering 1,838 habitations.

Ques 47. ANS (C) Solution: Solution: Mahinda Rajapaksa has taken oath as the Prime Minister of Sri Lanka.

Ques 48. ANS (D) Solution: Solution: To commemorate the birth anniversary of hockey legend Major Dhyan Chand, National Sports Day is celebrated across the country on 29 August.

Ques 49. ANS (B) Solution: Solution: The 2019 Nobel Peace Prize has been awarded to Ethiopian Prime Minister Abiy Ahmed who made peace last year with bitter foe Eritrea. He was awarded the prize for his efforts to "achieve peace and international cooperation".

Ques 50. ANS (D) Solution: Solution: Justice Sharad Arvind Bobde was appointed as the 47th Chief Justice of India. He will hold office till April 23, 2021.

Ques 51. ANS (C) Solution:

Girls in class $= 80 \times \frac{45}{100} = 36$

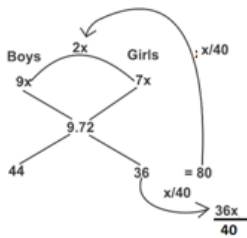Boys in class $= 80-36 = 44$

$\frac{9x \times 44 + 7x \times 36}{80} = 9.72$

$x = 1.2$

Req average $= 1.2 \times 9 = 10.8$ years

ALTERNATIVE

$9x - \frac{36x}{40} = 9.72$
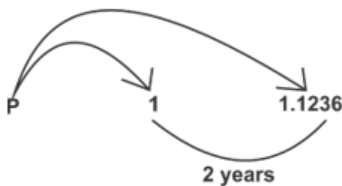
$x = 1.2$

Req. Average $= 9 \times 1.2 = 10.8$ years.

Ques 52. ANS (B) Solution:

2 years

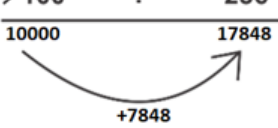| P	:	A
$\sqrt{10000}$	:	$\sqrt{11236}$
100	:	106

$R\% = \frac{6}{100} \times 100 = 6\%$

Ques 53. ANS (B) Solution:

$$\frac{45 \times 3}{27} + 12 - 10 + \frac{28}{35}$$

$$7 + \frac{4}{5}$$

$$7\frac{4}{5}$$

Ques 54. ANS (A) Solution:

base	$\longrightarrow$ 100	:	118
height	$\longrightarrow$ 100	:	236
	10000		17848

+7848

$\%$change $= \frac{7848}{10000} \times 100$
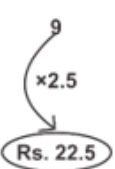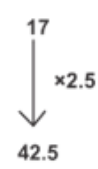
$= 78.48\%$

Ques 55. ANS (B) Solution:

$$\frac{7x}{6x - 13} = \frac{8}{5}$$
$$x = 8$$
$$\frac{8 \times 7 + 40}{48} = \frac{96}{48} = \frac{2}{1}$$

Ques 56. ANS (D) Solution:

CP	:	MRP
100-D%	:	100+P%
81	:	153
9	:	17
×2.5		×2.5
Rs. 22.5		42.5

Ques 57. ANS (C) Solution:

Req. area $= \frac{1}{2} \times 200 \times 210$

$= 21000 \ m^2$

$= 2.1$ hectares.

Ques 58. ANS (B) Solution:

$SI = 52000 \times \frac{15}{13 \times 100} \times \frac{8}{12}$

$= 400$ Rs.

Ques 59. ANS (D) Solution:

$$\text{Profit\%} = \frac{23}{100} \quad \begin{array}{l} \rightarrow \quad Profit \\ \rightarrow \quad SP \end{array}$$
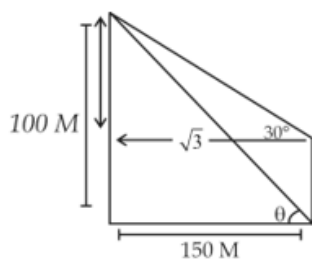
CP   SP

77   100

+23

$$\% \text{ profit} = \frac{23}{77} \times 100$$
$$= 29.8\%$$

Ques 60. ANS (D) Solution:

$$\frac{13 \times 42 \times 10}{100} = \frac{26 \times D \times 14}{30}$$
$$D = \frac{9}{2} \text{ days} = 4\frac{1}{2} \text{ days}$$

Ques 61. ANS (A) Solution:

$$\tan\theta = \frac{2}{3}$$

2 ------ 100

3 --------- 150

$\sqrt{3} - - - 150$

$$1 \rightarrow \frac{150}{\sqrt{3}} \times \frac{\sqrt{3}}{\sqrt{3}} = 50\sqrt{3}$$

Required height of pole = $100 - 50\sqrt{3}$
$$= 50(2 - \sqrt{3})m$$

Ques 62. ANS (C) Solution:

$$x + \frac{1}{x} = 4$$
$$x^2 + \frac{1}{x^2} = 14$$
$$x^3 + \frac{1}{x^3} = 64 - 12 = 52$$
$$\left(x^2 + \frac{1}{x^2}\right)\left(x^3 + \frac{1}{x^3}\right) = x^5 + \frac{1}{x} + x + \frac{1}{x^5}$$
$$(14)(52) = x^5 + \frac{1}{x^5} + \left(x + \frac{1}{x}\right)$$
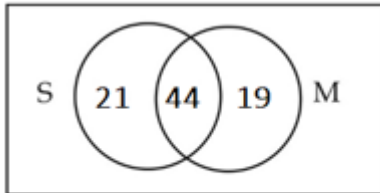$$728 = x^5 + \frac{1}{x^5} + 4$$
$$x^5 + \frac{1}{x^5} = 724$$

Ques 63. ANS (C) Solution:

$\text{Cosec}(90° - 7x) = \text{cosec}(3x - 37°)$
$90° - 7x = 3x - 37°$
$127° = 10x$
$x = 12.7$

Ques 64. ANS (B) Solution:

$a^3 - b^3 = (a - b)(a^2 + b^2 + ab)$
$((a + b)^2 - ab = a^2 + b^2 + ab)$
$4788 = 7((a + b)^2 - ab)$
$(a+b)^2 - ab = 684$

Ques 65. ANS (C) Solution:

Passed = 100 – (21 + 44 + 19)
Passed = 16%

Ques 66. ANS (B) Solution:

Let t be the right time
84(t + 25) = 98(t + 10)
6(t + 25) = 7(t + 10)
150 – 70 = t
t = 80 min

Ques 67. ANS (D) Solution:

$\dfrac{4x5251y}{88}$

88=8x11

$\dfrac{51y}{8} \Rightarrow \boxed{y = 2}$

$\dfrac{(4+5+5+2)-(x+2+1)}{11}$

$=\dfrac{13-x}{11}$

$\boxed{x = 2}$
X + y = 2 + 2 = 4

Ques 68. ANS (B) Solution:

$(x - 5)^3 + (2x - 9)^3 + (x - 4)^3 - 3(x - 5)(2x - 9)(x - 4) = 0$
X-5 +2x - 9 + x - 4 = 0
4x – 18 = 0
$x = \dfrac{18}{4} = 4.5$

Ques 69. ANS (A) Solution:

$100\left(\dfrac{(0.63)^3+(0.37)^3}{(0.63)^2+(0.37)^2-(0.63)(0.37)}\right)$
$100\,(1) \Rightarrow 100$

Ques 70. ANS (A) Solution:

$$\frac{4}{3}\pi(12)^3 = x \times \frac{4}{3}\pi(1.6)^3$$

$$x = 421$$

Ques 71. ANS (C) Solution:

Expenditure on a Miscellaneous annually

$$= \frac{81}{100} \times 24 \; crores$$

= 19.44

Ques 72. ANS (B) Solution:

Annually expenditure on operations

$$= \frac{81}{100} \times 16 = 12.96$$

Monthly expenditure $= \frac{12.96}{12}$

= 1.08

Ques 73. ANS (A) Solution:

Expenditure on miscellaneous annually = 19.44

Expenditure on research of tubes

$$= 19.44 \times \frac{12}{100} = 2.3328$$

Ques 74. ANS (D) Solution:

Total expenditure on Operation and Miscellaneous = 40%

Total expenditure on Interest and salary = 35%

Required % $= \frac{5}{35} \times 100 = 14.28\%$

Ques 75. ANS (D) Solution:

Total amount spent on Raw material

$= 60\%$ of $Tax = \frac{3}{5} \times \frac{81}{100} \times 25 = 12.15cr$

$=$

Ratio of amount of expenditure on Rent and

Raw material $= 1 : 2 \rightarrow 12.15cr$

Rent $=$

$2 \rightarrow 12.15cr$

$1 \rightarrow 6.07cr$

Ques 76. ANS (B) Solution: Solution: Place article "a" before "movie". If noun is placed after such, quite, rather, how etc., we use 'A' before that noun.

Ques 77. ANS (B) Solution: Solution: Remove "do" after "than" because use of "do" here is superfluous.

Ques 78. ANS (A) Solution: Solution: Position of adverb "only" is misplaced here. Use only after me to make it correct.

Ques 79. ANS (B) Solution: Solution: "Would be" is always followed by third form of verb so "brought to" is the correct usage here.

Ques 80. ANS (D) Solution:

Ques 81. ANS (C) Solution: Solution: Open to (something) means receptive to or welcoming of something.

Ques 82. ANS (A) Solution:

Ques 83. ANS (B) Solution:

Ques 84. ANS (D) Solution:

Ques 85. ANS (C) Solution:

Ques 86. ANS (B) Solution:

Ques 87. ANS (C) Solution: Solution: Be glad to see the back of means to be glad to see someone leave (usually because the speaker dislikes the person).

Ques 88. ANS (B) Solution: Solution: Devil's advocate means someone who supports an opposite argument or one that is not popular in order to make people think seriously.

Ques 89. ANS (A) Solution: Solution: Agoraphobia means extreme or irrational fear of entering open or crowded places, of leaving one's own home, or of being in places from which escape is difficult. Claustrophobia means extreme or irrational fear of confined places. Neophobia means extreme or irrational fear or dislike of anything new or unfamiliar.

Ques 90. ANS (D) Solution: Solution: Extricate: free someone or something from a constraint or difficulty. Intricate: very complicated or detailed. Exterminate: destroy completely. Expurgate: remove matter thought to be objectionable or unsuitable.

Ques 91. ANS (D) Solution: Solution: Petrify: change (organic matter) into a stony substance by encrusting or replacing it with a calcareous, siliceous, or other mineral deposit.

Ques 92. ANS (C) Solution: Solution: Succulent means tender, juicy, and tasty. Hence option (c) is the correct choice.

Ques 93. ANS (C) Solution: Solution: Celibate means not having sexual activity, especially because you have made a religious promise not to and Promiscuous means having a lot of different sexual partners or sexual relationships, or (of sexual habits) involving a lot of different partners.

Ques 94. ANS (C) Solution: Solution: Ingestion means the process of taking food, drink, or another substance into the body by swallowing or absorbing it and Excrete means (of a living organism or cell) separate and expel as waste (a substance, especially a product of metabolism).

Ques 95. ANS (C) Solution: Solution: Receipt means the action of receiving something or the fact of its being received.

Ques 96. ANS (D) Solution: Solution: Sponsor means a person or organization that pays for or contributes to the costs involved in staging a sporting or artistic event in return for advertising.

Ques 97. ANS (D) Solution: Solution: If reported speech is a universal truth, the tense of reported speech does not change.

Ques 98. ANS (A) Solution: Solution: When a sentence is given such that the verb is followed by an adjective then the structure of its passive voice is (subject + helping verb + adjective + when + pronoun + helping verb + V3).

Ques 99. ANS (A) Solution:

Ques 100. ANS (D) Solution: