SSC CHSL Previous Year Questions (Solutions)

S1. Ans.(c)

S2. Ans.(c)

Sol. A : B : C = 1 : 2 : 4

A.T.Q ⇒ $(1^2 + 2^2 + 4^2)x^2 = 336$

$x^2 = \frac{336}{21} = 16$

x = 4

∴ Difference = (4 – 1)x = 3x = 3 × 4 = 12

S3. Ans.(d)

Sol.

T	A	B	L	E	P	A	D	S
20	1	2	12	5	16	1	4	19
↓	↓	↓	↓	↓	↓	↓	↓	↓
2	1	4	3	25	7	1	16	10
B	A	D	C	Y	G	A	P	J

Similarly,

BACKSPACE→ DAIBJGAIY

S4. Ans.(b)

Sol. 4 × 2 + 2 = 10

10 × 3 – 3 = 27

27 × 5 + 5 = 140

140 × 7 – 7 = 973

S5. Ans.(a)

Sol. PEAR = 16 5 1 18

↓↓↓↓

7 5 1 9

Sum of the digits.

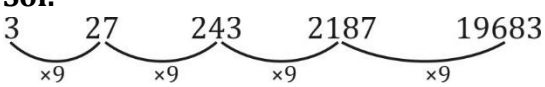
T	O	I	L	D	O	C	T	O	R
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
20	15	9	12	4	15	3	20	15	18
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
2	6	9	3	4	6	3	2	6	9

S6. Ans.(c)
Sol. $3^3 + 13^2 = 196$
$5^3 + 15^2 = 350$

S7. Ans.(c)
Sol. 18 Triangles

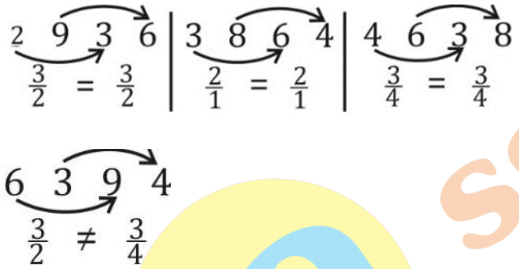
S8. Ans.(b)
Sol. $8 \times 4 + 3 = 35$
$35 \times 3 - 4 = 101$
$7 \times 4 + 3 = 31$
$31 \times 3 - 4 = 89$

S9. Ans.(d)
Sol.



S10. Ans.(c)

S11. Ans.(c)
Sol.



S12. Ans.(d)
Sol. $(8 + 1) \times (8 - 1) = 63$
$(7 + 4) \times (7 - 4) = 33$

S13. Ans.(b)
Sol. –7, +6, –5, +4, –3, +2

S14. Ans.(c)
Sol. $27 \rightarrow 3^3$ (present age of Gopal)
Two years ago, age = 25= 5^2

S15. Ans.(a)
Sol. 4, 2, 5, 1, 3

S16. Ans.(a)
Sol. 4 is opposite to 6.

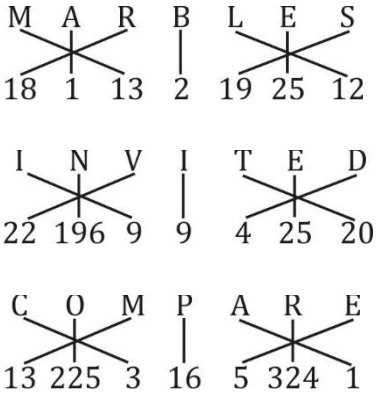
S17. Ans.(d)

S18. Ans.(b)
Sol. –3, +3 series

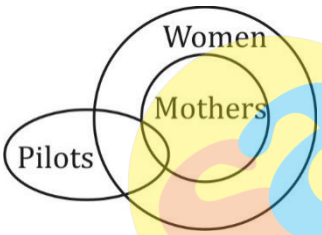
S19. Ans.(d)
Sol. Pair of opposite letters except option (d).

S20. Ans.(c)

S21. Ans.(d)
Sol.



S22. Ans.(c)
Sol.



S23. Ans.(c)
Sol. a b <u>d</u> b c /a b <u>d</u> b <u>c</u> /a b <u>d</u> b c /a b <u>d</u> b c

S24. Ans.(c)
Sol. Kyat in the currency of Myanmar.

S25. Ans.(c)
Sol. Candle illuminates light
Similarly, refrigerator cools.

S26. Ans.(a)
Sol. Mahatma Gandhi Mother name was Putlibai Gandhi.

S27. Ans.(a)
Sol. The headquarters of Union Bank of India is in the prestigious Nariman Point area of Mumbai, a stone's throw from the famous Marine Drive.

S28. Ans.(d)
Sol. The 124th Amendment Bill, 2019 seeks to provide for the advancement of "economically weaker sections" of citizens.

S29. Ans.(c)
Sol. Bangladesh defeated South Africa in their very first match of the 2019 World Cup held in June 2019 in England.

S30. Ans.(c)
Sol. Sonia Gandhi was elected as the leader of Congress Parliamentary Party after the 2019 Lok Sabha elections.

S31. Ans.(b)
Sol. Godavari river is known as the Ganga of South India or ' Dakshin Ganga' Because it is the largest river of South India similarly Ganga in northern India.

S32. Ans.(d)
Sol. Ram Vilas Paswan (born 5 July 1946) is an Indian politician from Bihar and the current Cabinet Minister of Consumer Affairs, Food and Public Distribution. Paswan was also the president of the Lok Janshakti Party. His son Chirag Paswan has been elected as the national president of Lok Janshakti Party (LJP) in November 2019.

S33. Ans.(a)
Sol. Benjamin Franklin flies a kite during a thunderstorm and collects a charge in a Leyden jar when the kite is struck by lightning, enabling him to demonstrate the electrical nature of lightning.

S34. Ans.(b)
Sol. Shashi Tharoor of Congress won against BJP's Kummanam Rajasekharan in Thiruvananthapuram Lok Sabha constituency.

S35. Ans.(a)
Sol. Registered political parties that have secured not less than 1 per cent of the votes polled in the last election of the Lok Sabha or legislative assembly will be eligible to receive electoral bonds. The SBI is the only authorised bank to issue such bonds.

S36. Ans.(d)
Sol. Greta Thunberg (born 3 January 2003) is a Swedish activist. She is known for her work against climate change, a popular example of youth activism. Also the Time 2019 Person of the Year is Greta Thunberg.

S37. Ans.(d)
Sol. The 72nd Annual Cannes Film Festival 2019 was held in france.

S38. Ans.(a)
Sol. At low levels, hydrogen sulfide gas has a strong odor similar to rotten eggs.

S39. Ans.(d)
Sol. BHIM (Bharat Interface for Money) is a mobile payment App developed by the National Payments Corporation of India (NPCI), based on the Unified Payments Interface (UPI).

S40. Ans.(a)
Sol. In chemistry, organic compounds are generally any chemical compounds that contain carbon.

S41. Ans.(b)
Sol. The Society for Worldwide Interbank Financial Telecommunication (SWIFT) provides a network that enables financial institutions worldwide to send and receive information about financial transactions in a secure, standardized and reliable environment.

S42. Ans.(d)
Sol. Belgavi is a city in the Indian state of Karnataka located in its northern part along the Western Ghats.

S43. Ans.(b)
Sol. Savings accounts earn interest at a rate of around 4%, while there is no such earning from a Current Account. A Current Account is actually a no interest-bearing deposit account.

S44. Ans.(d)
Sol. Rohit Sharma is the Vice Captain of the Indian team that is playing the World Cup 2019 in England.

S45. Ans.(a)
Sol. In February 1872, Lord Mayo, Governor-General of India, was assassinated at the penal settlement of Port Blair in the Andaman Islands.

S46. Ans.(c)
Sol. The Dwarkadhish temple is located in the town of Dwarka, on the banks of the Gomti River, in the district of Jamnagar in Gujarat.

S47. Ans.(a)
Sol. RAM stands for random access memory, a component that allows your computer to store data short-term for quicker access

S48. Ans.(b)
Sol. Ubuntu is a free and open-source Linux distribution based on Debian. Ubuntu is officially released in three editions: Desktop, Server, and Core.

S49. Ans.(d)

Sol. Kiren Rijiju is the Minister of Youth Affairs and Sports after the swearing in of the new Union government in May, 2019.

S50. Ans.(d)

Sol. The dancer wears a white or off-white plain sari embellished with bright golden or gold laced coloured brocade embroidered in its borders.

S51. Ans.(b)

Sol.

$8748 = 7500\left(1+\frac{R}{100}\right)^2$

$\frac{27}{25} = 1 + \frac{R}{100}$

$\Rightarrow R = \frac{2}{25} \times 100 = 8\%$

$\therefore S.I = \frac{7500\times16\times23}{100\times5} = 5520$

S52. Ans.(c)

Sol.

$\frac{1}{\sec\theta - \tan\theta} - \frac{1}{\cos\theta} = \sec\theta k$

$\frac{\cos^2\theta - 1 + \sin\theta}{(1-\sin\theta)\cos\theta} = \frac{k}{\cos\theta}$

$\frac{1-\sin^2\theta - 1 + \sin\theta}{1-\sin\theta} = k$

$\frac{\sin\theta(1-\sin\theta)}{(1-\sin\theta)} = k$

$k = \sin\theta$

S53. Ans.(b)

Sol. Arts = (275 + 350 + 325) = 950

Science = 225 + 250 + 300 + 280 + 375 = 1430

$\therefore \% = \frac{1430-950}{1430} \times 100 = 33.6\%$

S54. Ans.(c)

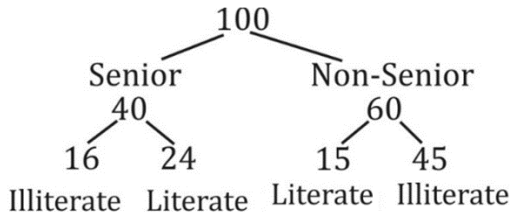
Sol. Average of science students = $\frac{225+300+375}{3}$

$= \frac{900}{3} = 300$

Arts student in 2011 = 275

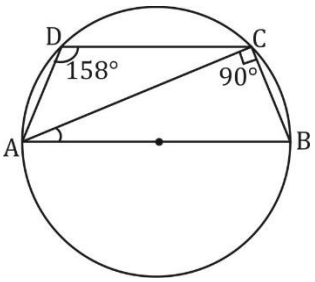
$\% = \frac{25}{275} \times 100 = \frac{100}{11} = 9\frac{1}{11}\%$

S55. Ans.(d)
Sol.



∴ Required % = $\frac{45-24}{45} \times 100 = \frac{140}{3} = 46\frac{2}{3}$

S56. Ans.(c)
Sol.



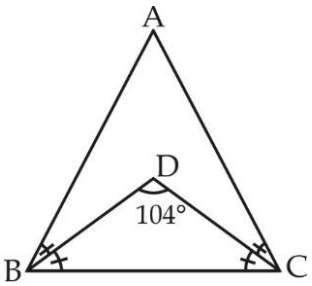
∴ ∠ABC = 180 – 158 = 22
& ∠ACB = 90°
∴ ∠BAC = 180 – (90 + 22) = 68°

S57. Ans.(c)
Sol.

$\underset{\downarrow}{\underline{8175x45y2}}$ divisible by 72 (8, 9)

For divisibility by 8 and for greater value of y
592 is divisible by 8
∴ y = 9
Now for divisibility by 9.
8 + 1 + 7 + 5 + x + 4 + 5 + 9 + 2 = 41 + x
∴ x = 4(for divisibility by 9)
∴ $\sqrt{4x + y} = \sqrt{26 + 9} = 5$

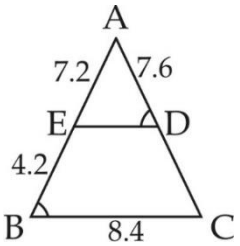
S58. Ans.(a)
Sol.



∠BDC = 90 + $\frac{\angle A}{2}$
104 – 90 = $\frac{\angle A}{2}$
∠A = 28°

S59. Ans.(d)

Sol.



Δ ADE $\cong$ Δ ABC

$\therefore \frac{AD}{AB} = \frac{ED}{BC}$

$\frac{7.6}{11.4} = \frac{ED}{8.4}$

ED = 5.6 cm

S60. Ans.(b)

Sol. $\text{Sin}^2 59° + \frac{1}{\text{cosec}^2 31°} + \tan^2 59° - \frac{1}{\sin^2 59° \text{cosec}^2 59°}$

$= \sin^2 59° + \sin^2 31° + \tan^2 59° - 1$

$= \sin^2 59° + \cos^2 59° + \tan^2 59° - 1$

$= 1 + \tan^2 59° - 1$

$= \sec^2 59° - 1$

$= \text{cosec}^2 31° - 1$

$= x^2 - 1$

S61. Ans.(a)

Sol. $24\sqrt{3}x^3 + 2\sqrt{2}y^3 = (2\sqrt{3}x + \sqrt{2}y)(Ax^2 + Bxy + Cy^2)$

$(2\sqrt{3}x)^3 + (\sqrt{2}y)^3 = (2\sqrt{3}x + \sqrt{2}y)(12x^2 - 2\sqrt{6}xy + 2y^2)$

A=12, B=$-2\sqrt{6}$, C=2

$\therefore 2A + \sqrt{6}B - C$

$= 2 \times 12 + \sqrt{6} \times (-2\sqrt{6}) - 2$

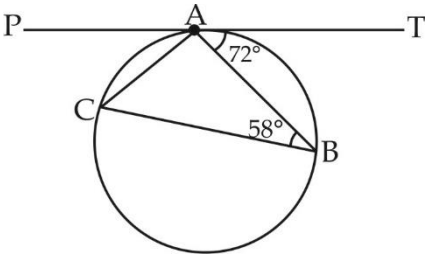
$= 24 - 12 - 2$

$= 24 - 14$

$= 10$

S62. Ans.(a)

Sol.



$\therefore \angle TAB = \angle BCA = 72°$(alternate segment angle)

$\therefore \angle CAB = 180 - 58 - 72° = 50°$

S63. Ans.(d)

Sol. $\pi r^2 h = 528$

$\frac{r}{2}.(2\pi rh) = 528$

$\frac{r}{2}(132) = 528$

r = 8

Now,

$2\pi rh = 132$

$h = \frac{132\times7}{22\times2\times8} = \frac{21}{8} = 2\frac{5}{8}$

S64. Ans.(c)

Sol.

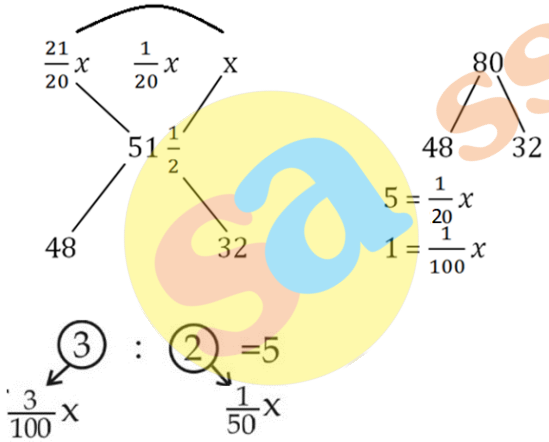
$\frac{\text{Sin}^2 25 + \sin^2 65}{\cos^2 24 + \cos^2 66} + \sin^2 71 + \cos 71 \sin 19°$

$= \frac{\sin^2 25 + \cos^2 25}{\cos^2 24 + \sin^2 24} + \sin^2 71 + \cos^2 71°$

= 1 + 1 = 2

S65. Ans.(d)

Sol. Let the average of the latter group = x



ATQ $\Rightarrow \frac{21}{20}x - \frac{1}{50}x = \frac{103}{2}$

x = 50

∴ Average of former group = $\frac{21}{20} \times 50 = 52.5$

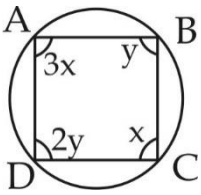
S66. Ans.(c)

Sol.

$\frac{225 + 375}{325 + 325} = \frac{600}{650} = \frac{12}{13}$

S67. Ans.(a)

Sol.



3x + x = 180

X = 45°

2y + y = 180

3y = 180

Y = 60°

∴ ∠B – ∠C = 60 – 45 = 15°

S68. Ans.(c)

Sol. 97% = 291

100% = 300

108% = $\frac{300}{100} \times 108$

= 324

S69. Ans.(d)

Sol. 3 × 2 ÷ 3 of 12 –3 ÷ 2 × (2 – 3) × 2 + 3 ÷ 2 of 3

= 3 × 2 ÷ 36 – 3 ÷ (–2) × 2 + 3 ÷ 6

$= 3 \times \frac{2}{36} + \frac{3}{2} \times 2 + \frac{1}{2}$

$= \frac{1}{6} + 3 + \frac{1}{2}$

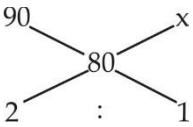
$= \frac{11}{3} = 3\frac{2}{3}$

S70. Ans.(b)

Sol. D, = total distance , t = total time

$\frac{D}{t} = 80$ km/hr

$\frac{\frac{3}{4}D}{\frac{2}{3}t} = \frac{9}{8} \times \frac{D}{t} = \frac{9}{8} \times 80 = 90$ km/hr



$\Rightarrow \frac{90-80}{80-x} = \frac{1}{2}$

⇒ 20 = 80 – x

x = 60

S71. Ans.(c)

Sol. $3\sin\theta = 2\cos^2\theta$

Take $\theta = 30°$

$\frac{3}{2} = 2 \times \frac{3}{4}$

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

$\tan\theta + \cos\theta + \sin\theta$

$= \frac{1}{\sqrt{3}} + \frac{\sqrt{3}}{2} + \frac{1}{2} = \frac{1}{\sqrt{3}} + \frac{\sqrt{3}+1}{2}$

$= \frac{2+\sqrt{3}(\sqrt{3}+1)}{2\sqrt{3}} = \frac{2+3+\sqrt{3}}{2\sqrt{3}} = \frac{5+\sqrt{3}}{2\sqrt{3}} \times \frac{\sqrt{3}}{\sqrt{3}}$

$= \frac{5\sqrt{3}+3}{6}$

S72. Ans.(c)

Sol.

$\frac{6x-4}{5x-4} = \frac{5}{4}$

$x = 4$

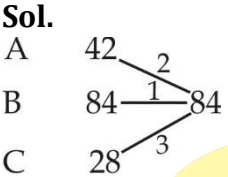
∴ present ages = 24 and 20

After 12 years = 36 and 32

∴ Ratio = $\frac{36}{32} = \frac{9}{8}$

S73. Ans.(c)

Sol.



A (A+B) (A+B+C)

Work 6 6 $\frac{84-12}{6} = \frac{72}{6} = 12$ days.

done. In in

3 days 2 days

∴ A worked for = 12 + 3 + 2 = 17 days.

S74. Ans.(c)

Sol.

2012 = $\frac{325-250}{250} \times 100$

$= \frac{75}{250} \times 100 = 30\%$

S75. Ans.(c)

Sol. $a + b + c = 4$

$a^2 + b^2 + c^2 = 16 - 2(1) = 14$

$\therefore a^3 + b^3 + c^3 - 3abc = (a + b + c)(a^2 + b^2 + c^2 - ab - bc - ca)$

$= 4\ (14 - 1)$

$= 4 \times 13 = 52$

S76. Ans.(d)
Sol. Manufacture means make (something) on a large scale using machinery.
Here we are talking about manufacturing lanterns for street lighting.
Execute: put (a plan, order, or course of action) into effect.
Accomplish: achieve or complete successfully.

S77. Ans.(d)
Sol. Inordinate: unusually or disproportionately large; excessive, unreasonable.
So, reasonable is the correct antonym.
Exorbitant: (of a price or amount charged) unreasonably high.

S78. Ans.(c)
Sol. "Crashed over the" will be used instead of "crashed to the".
Crash over means to make or cause to make a loud noise as of solid objects smashing or clattering or to fall or cause to fall with force, breaking in pieces with a loud noise as of solid objects smashing.

S79. Ans.(d)
Sol. Current: belonging to the present time; happening or being used or done now.

S80. Ans.(b)

S81. Ans.(b)
Sol. Inaudible: unable to be heard.
Incompatible: (of two things) so different in nature as to be incapable of coexisting.
Inevitable: certain to happen; unavoidable.

S82. Ans.(a)
Sol. Prevent from + gerund is used.
E.g. He prevented them from coming.

S83. Ans.(d)

S84. Ans.(d)
Sol. Chalet: a wooden house with overhanging eaves, typically found in the Swiss Alps.
Wigwam: a dome-shaped hut or tent made by fastening mats, skins, or bark over a framework of poles (as used formerly by some North American Indian peoples).
Hut: a small, simple, single-storey house or shelter.

S85. Ans.(b)
Sol. Tit for tat: the infliction of an injury or insult in return for one that one has suffered.

S86. Ans.(d)
Sol. Bite your tongue: make a desperate effort to avoid saying something.

S87. Ans.(a)
Sol. The correct preposition to be used here is "at".

S88. Ans.(b)
Sol. Cognizance: knowledge or awareness.
"To take cognizance of" is used to signify that you have taken something in consideration and working on it.

S89. Ans.(c)
Sol. Jeopardize: put (someone or something) into a situation in which there is a danger of loss, harm, or failure.
Imperil: put at risk of being harmed, injured, or destroyed.
Hazard: risky; dangerous.

S90. Ans.(b)

S91. Ans.(d)
Sol. Cursor is the right spelling.
A cursor is the position indicator on a computer display screen where a user can enter text. In an operating system with a graphical user interface (GUI).

S92. Ans.(a)

S93. Ans.(a)
Sol. In indirect speech interrogative sentence is converted into affirmative sentence.
Use helping verb after subject which is car here.

S94. Ans.(b)
Sol. Satellite is the correct spelling.
Satellite: an artificial body placed in orbit round the earth or moon or another planet in order to collect information or for communication.

S95. Ans.(d)
S96. Ans.(a)
S97. Ans.(c)
S98. Ans.(c)
S99. Ans.(a)

S100. Ans.(a)
Sol. Adhere: stick fast to (a surface or substance), comply.