

SSC CHSL
Mock Test -01
PART - I (REASONING)

1. (d); Psychology is the study of mental condition, similarly, Ornithology is the scientific study of birds.
2. (b);
3. (b); $13^2 + 13 = 182$
 $17^2 + 17 = 306$
4. (a); $11^2 + 1 : 13^2 + 1 :: 17^2 + 1 : 19^2 + 1$
5. (a);
6. (c); Difference in first two numbers than two folds is taken further.
7. (d);
8. (b); Text is different from the other three.
9. (d); except (d) in all other, one letter is skipped between the first two letters.
10. (b); D, B, C, A, E
11. (a); A, B, D, E, C
12. (b); M O L T E N

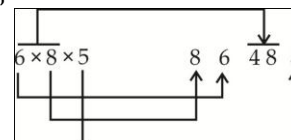
↓ ↓ ↓ ↓ ↓
D J F H O C

13. (c); $16 - 8 + 4 \div 3 \times 9$
 $\Rightarrow 20$

14. (c);

A =	3	(21)	247
	↓ ⁺²	↓ ⁺¹⁴	↓ ⁺¹⁶⁰
B =	5	(35)	407
	↓ ⁺²	↓ ⁺¹⁴	↓ ⁺¹⁶⁰
C =	7	(49)	567

15. (d);



16. (c); $9 + 7 - 5 = 11$ and
 $6 + 4 - 8 = 2$,
Similarly,
 $8 + 3 - 4 = 7$
17. (c); $4 + 12 = 11 + 5$
 $6 + 7 = 10 + 3$
 $8 + 9 = 10 + 7$
 $7 + 5 = 8 + 4$

18. (b);

19. (a); P

20. (c); 15 km

21. (a); EMINENT

22. (d); DIGITAL

23. (d); Total number of males = $1 + 4 + 12 = 17$

24. (a);

25. (a);

Part II (GENERAL AWARENESS)

26	d	31	c	36	b	41	b	46	c
27	a	32	b	37	d	42	c	47	d
28	c	33	a	38	a	43	c	48	c
29	c	34	c	39	b	44	c	49	c
30	a	35	a	40	c	45	c	50	c

PART - III (QUANTITATIVE APTITUDE)

51. (d); Let length = x

$$\Rightarrow \text{depth} = \frac{x}{3}$$

$$\& \text{breadth} = \frac{1}{2} \times \frac{1}{3} \times \left(x - \frac{x}{3}\right) = \frac{x}{9}$$

$$\Rightarrow x \times \frac{x}{3} \times \frac{x}{9} = 216 \text{ lit.}$$

$$x^3 = 3 \times 6 = 18 \text{ dm}$$

52. (b); Ratio's of numbers between A, B, C & D

$$A : B = 5 : 4$$

$$B : C = 9 : 10$$

$$C : D = 5 : 4$$

$$\Rightarrow A : B : C : D = 45 : 36 : 40 : 32$$

& D got 320

So A got 450 out of 500

53. (b); Let they will meet after T mins.

$$\text{A.T.Q} \rightarrow \text{Relative speed} = 5 + 10 = 15 \text{ m/min}$$

$$\Rightarrow T = \frac{1200}{15} = 80 \text{ min.}$$

54. (a); $\because 8P = P \left(1 + \frac{r}{100}\right)^3$

$$\Rightarrow 1 + \frac{r}{100} = 2$$

Now,

Let n = required number of years

$$\text{So, } 16P = P \left(1 + \frac{r}{100}\right)^n$$

$$\Rightarrow 16 = 2^n$$

$$\Rightarrow n = 4 \text{ years}$$

55. (c); $(mp + nr + ot) : (mg + ns + ou)$

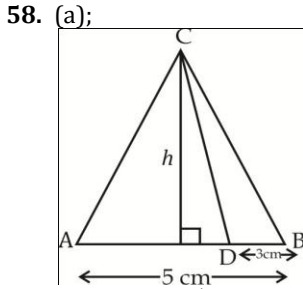
$$= (m \times 2 + n \times 2 + o \times 2) : (m \times 3 + n \times 3 + o \times 3)$$

$$= 2(m + n + o) : 3(m + n + o)$$

$$= 2 : 3$$

56. (d); HCF = 29, LCM = 4147 = 29 × 11 × 13
As both the numbers are greater than 29.
So, the first number = 29 × 11 = 319
And the second number = 29 × 13 = 377
Sum of the numbers = 319 + 377
= 696

57. (b); a : b = 2 : 3
b : c = 4 : 5
⇒ a : b : c = 8 : 12 : 15
⇒ $\frac{a+b}{b+c} = \frac{8+12}{12+15} = \frac{20}{27}$



$$\frac{\text{Area of } \triangle ADC}{\text{Area of } \triangle ABC} = \frac{\frac{1}{2} \times AD \times h}{\frac{1}{2} \times AB \times h} \quad (\text{Heights are same})$$

$$= \frac{AD}{AB} = \frac{5-3}{5} = \frac{2}{5}$$

59. (b); $\frac{\text{Arun's avg. Speed during first five hours}}{\text{Arun's Avg. speed during last five hours}}$

$$= \frac{20+30+20+15+25}{5} \div \frac{15+25+35+20+30}{5}$$

$$= \frac{110}{125} = \frac{22}{25}$$

60. (b); Req. diff. = 210 km - 185 km = 25 km.
61. (c); Avg. speed in (km/hr) during the first four hours

$$= \frac{25+40+35+25}{4} = \frac{125}{4}$$

$$= 31.25 \text{ km/hr.}$$

62. (c); Total discount he can allow = $36,000 \times \frac{7}{100} = 2520$
Discounted price break-up = $20,000 \times \frac{8}{100} + 10,000 \times \frac{5}{100}$

$$= 1600 + 500 = 2100$$

Difference = 2520 - 2100

$$= 420$$

⇒ He can allow discount of Rs. 420 on Rs. 6000

$$\Rightarrow \text{Req. \%} = \frac{420}{6000} \times 100 = 7\%$$

63. (d); Let the radius of cylindrical flask = x
⇒ radius of cone = 3x
AT.Q ⇒ $\frac{1}{3} \pi \times 9x^2 \times 24 = \pi \times x^2 \times H$
H = 72 cm.

64. (a); $S = 4\pi r^2$

$$V = \frac{4}{3} \pi r^3$$

$$\Rightarrow \frac{S^3}{V^2} = \frac{(4\pi r^2)^3}{\left(\frac{4}{3}\pi r^3\right)^2} = 36\pi$$

65. (b); Total surface area = $4 \times \left[\frac{\sqrt{3}}{4} \times 1^2\right]$

$$= \sqrt{3} \text{ cm}^2$$

66. (b); $\frac{(A+B+C) \times 2}{\frac{1}{2}} = \frac{(B+C) \times 2}{\frac{3}{10}}$

$$\frac{A+B+C}{B+C} = \frac{5}{3}$$

A + B + C can do work in - 4 days with efficiency of 5

$$\Rightarrow \text{Total work} = 20$$

A alone can do it in = $\frac{20}{2} = 10$ days

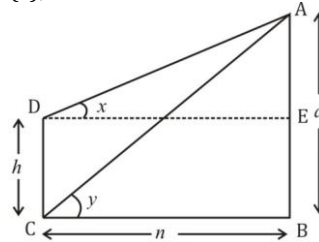
67. (d); $v - u = \frac{12}{5}$ (v = Speed of Boat, u = Speed of current)

$$\Rightarrow v - 4 = \frac{12}{5} \Rightarrow v = \frac{12}{5} + 4 = \frac{32}{5} = 6.4$$

$$v + u = \frac{15}{T} \Rightarrow 10.4 = \frac{15}{T} \Rightarrow T = \frac{15}{10.4}$$

$$T = 1 \text{ hour } 26 \frac{7}{13} \text{ min.}$$

68. (c);



Let height of building be a metre
& CB = DE = n

In ADE

$$\tan x = \frac{AE}{DE} = \frac{a-h}{n}$$

$$n = (a - h) \cot x \dots\dots(i)$$

In ABC

$$\tan y = \frac{a}{n} \Rightarrow n = a \cot y \dots\dots(ii)$$

 From (i) & (ii)

$$a = \frac{h \cot x}{\cot x - \cot y}$$

69. (b); Complement of an angle = $\frac{1}{4}$ Supplementary angle

$$90^\circ - \theta = \frac{1}{4}(180^\circ - \theta)$$

$$\theta = 60^\circ$$



Work = $30 \times \frac{4}{5} = 24$
Efficiency = 3
Days = $\frac{24}{3} = 8$ days.

71. (b); $2P + \frac{1}{P} = 4 \Rightarrow P + \frac{1}{2P} = 2$ (dividing by 2)

$$\Rightarrow \left(P + \frac{1}{2P}\right)^3 = 8 \Rightarrow P^3 + \frac{1}{8P^3} + 3 \times P \times \frac{1}{2P} \times 2 = 8$$

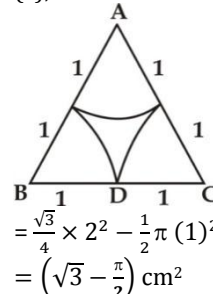
$$P^3 + \frac{1}{8P^3} = 8 - 3 = 5$$

72. (c); Area of shaded region = area of semicircle - area of triangle.

$$= \frac{\pi(a)^2}{2} - \frac{1}{2} \times a \times 2a$$

$$= \frac{\pi a^2}{2} - a^2 = a^2 \left(\frac{\pi}{2} - 1\right) \text{ sq. unit.}$$

73. (c); Area of Bounded region



$$= \frac{\sqrt{3}}{4} \times 2^2 - \frac{1}{2} \pi (1)^2$$

$$= \left(\sqrt{3} - \frac{\pi}{2}\right) \text{ cm}^2$$

74. (c); $\left[\frac{\cos^2 A(\sin A + \cos A)}{\operatorname{cosec}^2 A(\sin A - \cos A)} \right] + \left[\frac{\sin^2 A(\sin A - \cos A)}{\sec^2 A(\sin A + \cos A)} \right] (\sec^2 A - \operatorname{Cosec}^2 A)$
 $\Rightarrow \frac{\cos^2 A \cdot \sin^2 A (\sin A + \cos A)}{(\sin A - \cos A)} + \frac{\sin^2 A \cdot \cos^2 A (\sin A - \cos A)}{(\sin A + \cos A)} \left[\frac{1}{\cos^2 A} - \frac{1}{\sin^2 A} \right]$
 $\Rightarrow \left[\frac{(\sin A + \cos A)^2 + (\sin A - \cos A)^2}{\sin^2 A - \cos^2 A} \right] \times (\sin^2 A - \cos^2 A)$
 $= 2$

75. (b); Let initially avg. weight = x
 & weight of men = a
 \Rightarrow total weight of 150 oarsmen = 15x
 After replacement total weight = 15(x + 1.6)
 $15x - 42 + a = 15(x + 1.6)$
 $15x - 42 + a = 15x + 24$
 $A = 66$ kgs.

PART - IV ENGLISH LANGUAGE

76. A
 77. A
 78. C
 79. A **Precarious**- dependent on chance, uncertain, doubtful, dubious
 i. Ex- "he made a precarious living as a painter"
 80. C **Abundant**- plenty, in large numbers/quantity
 i. (another)
 81. B **Cumbersome**- slow or complicated and therefore inefficient
 82. D **Mulish**- obstinate, recalcitrant
 i. **Benign**- Polite, Decent
 ii. **Fanatic**- Bigot, Zealot, Extremist
 iii. **Docile**- obedient
 83. C; **Maladroit**-inefficient or inept
 i. **Bellicose**-willingness to fight
 ii. **Overt**-clear, unconcealed
 84. A; **Calumny**- an untrue statement to harm someone's reputation
 i. **Expletives**- cussword, obscenity
 85. C;
 86. D; **Admissible**- able to be admitted or allowed
 87. A
 88. A
 89. C;
 90. C; use 'interferes' in place of interfere
 91. A; You may be rest assured (passive sentence is needed here)
 92. B; Way is a singular countable noun so use article 'a' before it (in a way)
 93. A; Despair of- the complete loss or absence of hope
 94. D;
 95. C; **Last long**- till long time
 96. A
 97. C
 98. D
 99. C
 100. B

