

SBI Clerk Preliminary Grand Test –SCP-180552

HINTS & SOLUTIONS

ANSWER KEY

1.(3)	21.(4)	41.(2)	61.(2)	81.(4)
2.(4)	22.(3)	42.(4)	62.(3)	82.(4)
3.(1)	23.(1)	43.(1)	63.(4)	83.(1)
4.(4)	24.(2)	44.(4)	64.(3)	84.(3)
5.(5)	25.(4)	45.(1)	65.(4)	85.(3)
6.(3)	26.(5)	46.(2)	66.(2)	86.(3)
7.(1)	27.(3)	47.(3)	67.(5)	87.(2)
8.(4)	28.(2)	48.(1)	68.(1)	88.(1)
9.(3)	29.(1)	49.(2)	69.(3)	89.(3)
10.(5)	30.(5)	50.(1)	70.(4)	90.(5)
11.(4)	31.(5)	51.(2)	71.(1)	91.(5)
12.(2)	32.(1)	52.(5)	72.(2)	92.(5)
13.(3)	33.(3)	53.(1)	73.(5)	93.(5)
14.(1)	34.(2)	54.(5)	74.(5)	94.(3)
15.(2)	35.(1)	55.(1)	75.(3)	95.(4)
16.(1)	36.(4)	56.(3)	76.(3)	96.(1)
17.(5)	37.(3)	57.(4)	77.(4)	97.(3)
18.(2)	38.(2)	58.(3)	78.(4)	98.(2)
19.(4)	39.(2)	59.(2)	79.(1)	99.(3)
20.(4)	40.(4)	60.(2)	80.(3)	100.(5)

HINTS & SOLUTIONS

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|---------|---------------------------------------|---------|
| 1. (3) | 2. (4) | 3. (1) |
| 4. (4) | 5. (5) | 6. (3) |
| 7. (1) | 8. (4) | 9. (3) |
| 10. (5) | | |
| 11. (4) | Change 'charging' into 'charge of' | |
| 12. (2) | Change 'enable' into 'enables'. | |
| 13. (3) | Change 'current's' into 'current'. | |
| 14. (1) | Change 'deal' into 'dealt'. | |
| 15. (2) | Change 'employee' into 'employees'. | |
| 16. (1) | Add 'state' or 'country' after 'our'. | |
| 17. (5) | No error | |
| 18. (2) | Change 'in' into 'into'. | |
| 19. (4) | Add 'about' before the cutlery'. | |
| 20. (4) | Change to into 'in'. | |
| 21. (4) | 22. (3) | 23. (1) |
| 24. (2) | 25. (4) | 26. (5) |
| 27. (3) | 28. (2) | 29. (1) |
| 30. (5) | | |
| 31. (5) | I. $x^2 - x - 12 = 0$ | |
| | $\Rightarrow x^2 - 4x + 3x - 12 = 0$ | |
| | $\Rightarrow x(x-4) + 3(x-4) = 0$ | |

$$\Rightarrow x = -3, 4$$

$$\text{II. } y^2 + 5y + 6 = 0$$

$$\Rightarrow y^2 + 3y + 2y + 6 = 0$$

$$\Rightarrow y(y+3) + 2(y+3) = 0$$

$$\Rightarrow y = -3, -2$$

$$32. (1) \text{ I. } x^2 - 8x + 15 = 0$$

$$\Rightarrow x^2 - 5x - 3x + 15 = 0$$

$$\Rightarrow x(x-5) - 3(x-5) = 0$$

$$\Rightarrow x = 5, 3$$

$$\text{II. } y^2 - 3y + 2 = 0$$

$$\Rightarrow y^2 - 2y - y + 2 = 0$$

$$\Rightarrow y(y-2) - 1(y-2) = 0$$

$$\Rightarrow y = 2, 1$$

Clearly, $x > y$

$$33. (3) \text{ I. } x^2 - 32 = 112$$

$$\Rightarrow x^2 = 112 + 32 = 144$$

$$\Rightarrow x = +12, -12$$

$$\text{II. } y - \sqrt{169} = 0$$

$$\Rightarrow y = \sqrt{169}$$

$$\Rightarrow y = 13$$

Clearly, $x < y$

$$34. (2) \text{ I. } x - \sqrt{121} = 0$$

$$\Rightarrow x = \sqrt{121}$$

$$\Rightarrow x = 11$$

$$\Rightarrow y^2 - 121 = 0$$

$$\Rightarrow y^2 = 121$$

$$\Rightarrow y = +11, -11$$

Clearly, $x \geq y$

$$35. (1) \text{ I. } 2x^2 + 5x + 3 = 0$$

$$\Rightarrow 2x^2 + 2x + 3x + 3 = 0$$

$$\Rightarrow 2x(x+1) + 3(x+1) = 0$$

$$\Rightarrow x = -\frac{3}{2}, -1$$

$$\text{II. } 8y^3 + 27 = 0$$

$$\Rightarrow 8y^3 = -27$$

$$\Rightarrow y^3 = -\frac{27}{8}$$

$$\Rightarrow y = \sqrt[3]{-\frac{27}{8}}$$

$$\Rightarrow y = -\frac{3}{2}$$

Clearly, $x \geq y$

$$36. (4) \text{ Rate} = 5\% = \frac{1}{20}$$

$$20 \times 441 \qquad 11 \times 441$$

$$400 \times 21 \qquad 441 \times 21$$

$$\frac{8000}{\qquad} \qquad \frac{9261}{\qquad}$$

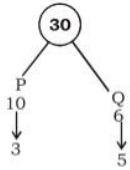
$$P = 25,220 \qquad A = 27,783$$

$$\text{Now, } 9261 \text{ unit Rs. } 2,350$$

$$25,220 \text{ unit} \rightarrow \text{Rs. } \frac{2350}{9261} \times 25220$$

$$= \text{Rs. } 6,399.63$$

37. (3)



$$Q's \ 4 \ \text{days work} = 5 \times 4 = 20$$

$$\text{Remaining work} = 30 - 20 = 10$$

$$\text{Number of days to P work} = \frac{10}{3} = 3\frac{1}{3} \text{ days}$$

38.(2) Required Probability

$$= \frac{{}^5C_3 + {}^3C_3}{{}^8C_3}$$

$$= \frac{10+1}{56} = \frac{11}{56}$$

39.(2) Let the breadth be x m
and length = $(x + 5)$ m
ATQ,

$$2(x + x + 5) = 150$$

$$\Rightarrow 2x + 5 = 75$$

$$\Rightarrow x = 35 \text{ m}$$

$$\text{Length} = 35 \times 5 = 40\text{m}$$

Circumference of the largest circle

$$= 2 \times \frac{22}{7} \times \frac{35}{2} = 110\text{m}$$

40. (4) Length of faster train

$$= 90 \times \frac{5}{18} = 30\text{m}$$

Length of slower train

$$= 300 \times \frac{150}{100} = 450\text{m}$$

$$\text{Required time} = \frac{450}{36 \times \frac{5}{18}}$$

$$= 45 \text{ seconds}$$

41. (2) Percentage marks obtained by Sohan in English

$$= 100 - (25 + 20 + 15 + 15) = 25\%$$

Total marks obtained in English by all the students together

$$= 500 \times \frac{30}{100} + 600 \times \frac{28}{100} + 640 \times \frac{25}{100} +$$

$$650 \times \frac{24}{100} + 680 \times \frac{20}{100} + 700 \times \frac{20}{100}$$

$$= 150 + 168 + 160 + 156 + 136 + 140$$

$$= 910$$

$$\therefore \text{Required}\% = \left(\frac{910}{500} \times 100 \right)\% = 182\%$$

42. (4) Percentage of marks obtained in Computer by Ramesh =

$$100 - (30 + 18 + 20 + 10) = 22\%$$

Percentage of marks obtained in computer by Javed =

$$100 - (20 + 26 + 17 + 17) = 20\%$$

Percentage of marks obtained in Reasoning by Mainsh =

$$100 - (28 + 18 + 18 + 16) = 20\%$$

Total marks obtained in Reasoning and Computer

$$\text{together by Ramesh} = 500 \times \frac{40}{100} = 200$$

$$\text{Manish} = 600 \times \frac{38}{100} = 228$$

$$\text{Javed} = 700 \times \frac{46}{100} = 322$$

$$\text{Ashu} = 680 \times \frac{47.5}{100} = 323$$

$$\text{Vivek} = 650 \times \frac{44}{100} = 286$$

\therefore Required answer is Ashu.

43. (1) Percentage of marks obtained in GA by Ashu
= $100 - (20 + 25 + 12.5 + 22.5) = 20\%$

\therefore Total marks obtained by all the students together in

$$\text{GA} = 500 \times \frac{10}{100} + 600 \times \frac{16}{100} + 640 \times \frac{15}{100} +$$

$$650 \times \frac{16}{100} + 680 \times \frac{20}{100} + 700 \times \frac{17}{100}$$

$$= 50 + 96 + 96 + 104 + 136 + 119 = 601$$

$$\text{Reasoning} = 500 + \frac{18}{100} + 600 \times \frac{20}{100} + 640 \times \frac{25}{100} + 650$$

$$\times \frac{22}{100} + 680 \times \frac{25}{100} + 700 \times \frac{26}{100}$$

$$= 90 + 120 + 160 + 143 + 170 + 182$$

$$= 865$$

$$\therefore \text{Required}\% = \left(\frac{865}{601} \times 100 \right)\%$$

$$= 143.92\% \approx 144\%$$

44. (4) Total marks obtained in English, Maths and Computer

$$\text{together by Javed} = 700 \times \frac{57}{100} = 399$$

$$\text{Sohan} = 640 \times \frac{60}{100} = 384$$

\therefore Required ratio = 399 : 384

$$= 133 : 128$$

45. (1) Total marks obtained by all the students together in

$$\text{Maths} = 500 \times \frac{20}{100} + 600 \times \frac{18}{100} + 640 \times \frac{20}{100} + 650 \times$$

$$\frac{18}{100} + 680 \times \frac{12.5}{100} + 700 \times \frac{17}{100}$$

$$= 100 + 108 + 128 + 117 + 85 + 119 = 657$$

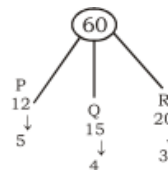
$$\text{Computer} = 500 \times \frac{22}{100} + 600 \times \frac{18}{100} + 640 \times \frac{15}{100} +$$

$$650 \times \frac{20}{100} + 680 \times \frac{22.5}{100} + 700 \times \frac{20}{100}$$

$$= 110 + 108 + 96 + 130 + 153 + 140 = 737$$

\therefore Required difference = 737 - 657 = 80

46. (2)



In first hour, part of the tank filled by 5 + 4 = 9 litres

In second hour, part of the tank filled by 5 + 3 = 8 litres

$$\therefore \text{Required time} = \frac{51 \times 2}{17} + \frac{9}{9} = 6 + 1 = 7 \text{ hours}$$

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47. (3) $P = \frac{6500 \times 10 \times 13}{100} = \text{Rs. } 8,450$

$\therefore \text{CI} = 8450 \times \frac{110}{100} \times \frac{110}{100} - 8450$

$= 10224.50 - 8450 = \text{Rs. } 1,774.50$

48. (1) Let the mixture contains 10 litres of liquid. Let x litres of mixture replaced with water.

Quantity of water in new mixture

$= \left(1 - \frac{x}{10} + x\right)$ litres

Quantity of milk in new mixture $= \left(1 - \frac{x}{10} + x\right) = \left(9 - \frac{9x}{10}\right)$

$\Rightarrow \frac{9x}{5} = 8 \Rightarrow x = \frac{40}{9}$

\therefore Required part $= \frac{40}{9} = \frac{4}{9}$ th

49. (2) Ratio of their efficiency

$= A : B : C = \frac{1}{12} : \frac{1}{15} : \frac{1}{24} = 10 : 8 : 5$

\therefore Required number of pages $= \frac{506}{23} \times 8 = 176$

50. (1) $\frac{4^3 + 25}{11} = \frac{89}{11}$

\therefore Remainder = 1

51. (2) Required average

$= \left(\frac{20 + 25 + 35 + 30 + 45}{5}\right) \times 1000 = \text{Rs. } 31,000$

52. (5) Total monthly income of Ram

$= (15 + 20 + 30 + 35 + 40) \times 1000 = \text{Rs. } 1,40,000$

Total monthly income of Suresh

$= (10 + 20 + 25 + 35 + 50) \times 100 = \text{Rs. } 1,40,000$

Required difference $= 140000 - 140000 = \text{Rs. } 0$

53. (1) Required % $= \left(\frac{35 - 30}{35} \times 100\right)\% = 14.28\% \approx 14\%$ less

54. (5) Required average $= (20 + 35) : (10 + 35) = 55 : 45 = 11 : 9$

55. (1)

56. (3) The number series is as follows:

$7 \times 1 + 1 = 8$

$8 \times 2 + 2 = 18$

$18 \times 3 + 3 = 57$

$57 \times 4 + 4 = 232$

$232 \times 5 + 5 = 1165$

57. (4) The number series is as follows:

$77 + 8 \times 1 = 85$

$85 - 8 \times 2 = 69$

$69 + 8 \times 4 = 101$

$101 - 8 \times 8 = 37$

$37 + 8 \times 16 = 165$

58. (3) The number series is as follows:

$79 \times 1 + 1 = 80$

$80 \times 2 + 2 = 162$

$162 \times 3 + 3 = 489$

$489 \times 4 + 4 = 1960$

59. (2) The number series is as follows:

$9 \times 7 - 1 = 62$

$62 \times 6 - 1 = 371$

$371 \times 5 - 1 = 1854$

$1854 \times 4 - 1 = 7415$

60. (2) The number series is as follows:

$8 + 2^3 = 16$

$16 + 3^3 = 43$

$43 + 4^3 = 107$

$107 + 5^3 = 232$

61. (2) $896 - (?)^3 = 4608 + 12$

$\Rightarrow 896 - (?)^3 = 384 \Rightarrow (?)^3 = 896 - 384 \Rightarrow ? = 8$

62. (3) 32% of 150 \times 53% of ? = 7632

$\Rightarrow 150 \times \frac{32}{100} \times \frac{53}{100} \times ? = 7632$

$\Rightarrow ? = \frac{7632 \times 100 \times 100}{150 \times 32 \times 53} = 300$

63. (4) $\frac{3}{4}$ of 24% of 400 - 32 = ? 3

$\Rightarrow ? = \frac{3}{4} \times \frac{24}{100} \times 400 - 32 = 72 - 32 = 40$

64. (3) 19.8% of 1750 + 6% of 150 = ? + 276.8

$\Rightarrow 346.5 + 9 = ? + 276.8 \Rightarrow ? = 355.5 - 276.8 = 78.7$

65. (4) $675.4 + 88.46 - 126.8 = (?)^2 - 38.94$

$\Rightarrow 637.06 + 38.94 = (?)^2$

$\Rightarrow (?)^2 = 676 \Rightarrow ? = 26$

66. (2) $S \geq D = M \geq R$

I. $R < S \rightarrow$ Doubt

II. $R = S \rightarrow$ Doubt

Either conclusion I or II is true

$E > Z = U < Y$

I. $E > Y \rightarrow$ False

$E > Z = U \geq X$

II. $E > X \rightarrow$ True

Only conclusion II is true

$V \leq L \geq A > B \leq C = T$

I. $V \leq C \rightarrow$ False

II. $C > V \rightarrow$ False

Neither conclusion I nor II is true

69. (3) $A > D < E \leq C \leq B$

I. $B > D \rightarrow$ True

II. $A \geq C \rightarrow$ False

Only conclusion I is true

70. (4) $A > D > E \geq C \leq B$

I. $A > C \rightarrow$ True

II. $E < A \rightarrow$ True

Both conclusions I and II are true

71-75.

Floor	Teacher	Subject
9	X	Accounts
8	W	Science
7	S	Reasoning
6	Q	Maths
5	V	Geography
4	P	Hindi
3	U	Computer
2	T	History
1	R	English

71. (1)

72. (2)

73. (5)

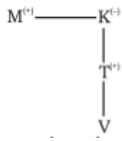
74. (5)

75. (3)

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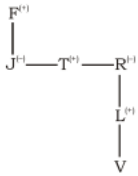
76. (3)



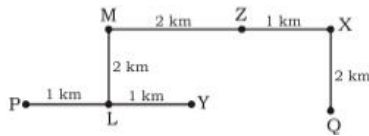
K is the grand mother of V

77. (4)

78. (4)



79-80.



79. (1)

80. (3)

81-85.

Time →	9.00AM	11.00AM
Day ↓		
Monday	B	Q
Tuesday	D	S
Wednesday	T	R
Thursday	A	P
Friday	C	E

81. (4)

82. (4)

83. (1)

84. (3)

85. (3)

86-90.

Person	Day	Hill Station
L	Saturday	Shimla
M	Saturday	Nainital
N	Wednesday	Ooty
O	Friday	Manali
P	Friday	Darjeeling
Q	Sunday	Gangtok
R	Sunday	Lonavla

86. (3)

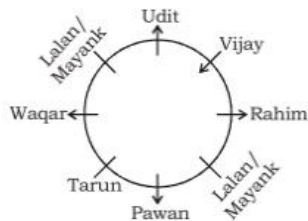
87. (2)

88. (1)

89. (3)

90. (5)

91-95.



91. (5)

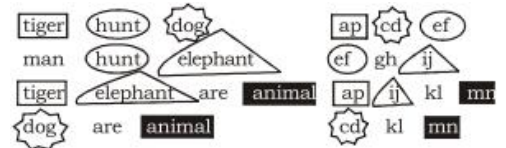
92. (5)

93. (5)

94. (3)

95. (4)

96-100.



tiger → ap man → gh
 hunt → ef are → kl
 dog → cd animal → mn
 elephant → ij

96. (1)

97. (3)

98. (2)

99. (3)

100. (5)