

## SBI Clerk Preliminary Grand Test –SCP-180549

### HINTS & SOLUTIONS

#### ANSWER KEY

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

#### HINTS & SOLUTIONS

- |         |   |         |
|---------|---|---------|
| 1. (1)  | 2. (1)  | 3. (2)  |
| 4. (4)  | 5. (2)  | 6. (1)  |
| 7. (5)  | 8. (2)  | 9. (4)  |
| 10. (2) | 11. (3)   | 12. (5) |
| 13. (2) | 14. (4)   | 15. (1) |
| 16. (5) | 17. (1)   | 18. (2) |
| 19. (4) | 20. (5)   | 21. (3) |
| 22. (3) | 23. (2)   | 24. (1) |
| 25. (2) |   |         |
| 26.(1)  | Change 'unfortunate' with 'unfortunately'.  |         |
| 27. (5) | No error  |         |
| 28.(3)  | Put 'that' before 'comes'.  |         |
| 29.(3)  | Change 'himself' with 'him'.  |         |
| 30.(4)  | Change 'following' with 'followed by'.  |         |
| 31. (2) | The number series is as follows:<br>8 + 2 = 10<br>10 + (3 × 2 + 2) = 18<br>18 + (3 × 8 + 2) = 44<br>44 + (3 × 26 + 2) = 124<br>124 + (3 × 80 + 2) = 366 |         |

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

$$13 + 1 + 12 = 25$$

$$25 + 3 \times 12 = 61$$

$$61 + 5 \times 12 = 121$$

$$121 \times 7 \times 12 = 205$$

$$205 + 9 \times 12 = \mathbf{313}$$

33.(1) The number series is as follows:

$$656 \div 2 + 24 = 352$$

$$352 \div 2 + 24 = 200$$

$$200 \div 2 + 24 = 124$$

$$124 \div 2 + 24 = 86$$

$$86 \div 2 + 24 = \mathbf{67}$$

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

$$454 + 18 = 472$$

$$472 - 27 = 445$$

$$445 + 18 = 463$$

$$463 - 27 = 436$$

$$436 + 18 = 454$$

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

$$12 \times 4 - 30 = 18$$

$$18 \times 4 - 36 = 36$$

$$36 \times 4 - 42 = 102$$

$$102 \times 4 - 48 = 360$$

$$360 \times 4 - 54 = \mathbf{1386}$$

36. (1) Remaining milk =  $40 \left(1 - \frac{7}{70}\right)$

$$= 70 \times \left(\frac{9}{10}\right)^3 = 70 \times \frac{729}{1000} \text{ litres}$$

$$\therefore \text{Required \%} = \left[ \frac{70 \times \frac{729}{1000}}{70} \times 100 \right] \% = 72.9\%$$

37. (3) Let CP = Rs. 100

$$\therefore SP_1 = 100 \times \frac{129}{100} = \text{Rs.}129$$

$$\therefore MP_p = 129 \times \frac{100}{80} \times \frac{100}{90} \times \frac{100}{75}$$

$$\therefore SP_2 = 129 \times \frac{100}{80} \times \frac{100}{90} \times \frac{100}{75} \times \frac{80}{100} \times \frac{90}{100} = \text{Rs.}172$$

$$\therefore \text{Profit} = 172 - 100 = \text{Rs.} 72$$

$$\therefore \text{Profit} = \left(\frac{72}{100} \times 100\right) \% = 72\%$$

38. (1) Number of men to complete the work in 4 days

$$= \frac{12 \times 8}{4} = 24 \text{ men}$$

$$\therefore \text{Required number of men} = 24 - 12 = 12 \text{ men}$$

39. (2) Let the man has Rs. 100.

$$\text{Saving + cost of watch} = 1040 + 1930 = \text{Rs.} 2970$$

$$\text{His saving after spent on grocery and fuel}$$

$$= 100 - \left(25 + 75 \times \frac{10}{100}\right) = 67.5\%$$

$$\therefore \text{Amount spent on fuel} = \frac{2970}{67.5} \times 7.5 = \text{Rs.}330$$

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40. (2) Let the present age of father and son are  $x$  and  $y$  respectively.

ATQ,  $(x + y) = 54 \times 2$

$\Rightarrow x + y = 108$

$x - y = 60$

Equation (i) + (ii), we get,

$2x = 168 \Rightarrow x = 84$

Put the value of  $x$  in equation (i),

$84 + y = 108 \Rightarrow y = 108 - 84 = 24$

$\therefore x : y = 84 : 24 = 7 : 2$

41. (5) Number of employees in company Q

in the year 2011 =  $200 \times \frac{130}{100} = 260$

Required ratio =  $260 : 320 = 13 : 16$

42. (3) Required difference

$= (320 + 310) - (350 + 270) = 630 - 620 = 10$

43. (3) Required average

$= \frac{200 + 180 + 120 + 200}{4} = \frac{700}{4} = 175$

44. (2) Required % =  $\left( \frac{350 - 140}{350} \times 100 \right) \% = 60\%$

45. (4) Required % =  $\left( \frac{440 - 260}{260} \times 100 \right) \% = 69.23\% = 69\%$

46. (4) Required total =  $350 + 325 + 300 + 375 + 425 = 1,775$

47. (3) Required ratio =  $(300 + 425) : (275 + 300)$

$= 725 : 575 = 29 : 23$

48. (1) Total number of Mobiles sold by all the shopkeeper

Lenovo =  $350 + 325 + 300 + 375 + 425 = 1,775$

Moto =  $275 + 300 + 325 + 450 + 325 = 1,675$

Nokia =  $425 + 475 + 325 + 425 + 225 = 1,875$

Required ratio =  $1775 : 1675 : 1875 = 71 : 67 : 75$

49. (5) Required % =  $\left( \frac{325}{1875} \times 100 \right) \% = 17.33\% = 17\%$

50. (1) Required % =  $\left( \frac{300}{1100} \times 100 \right) \%$

51. (2) Total distance covered by train in 20 seconds =

$= 108 \times \frac{5}{18} \times 20 = 600$  meters

Length of platform =  $600 - 280 = 320$  meters

Required speed of man =  $\frac{320}{40} = 8$  m/s

52. (3) Diameter = 56 cm.

Circumference =  $d = \frac{22}{7} \times 56 = 176$  cm.

Perimeter of square =  $272 - 176 = 96$  cm.

Side of square =  $\frac{96}{4} = 24$  cm.

Area of circle + Area of square =  $r^2 + (\text{side})^2$

$= \frac{22}{7} \times 28 \times 28 + (24)^2 = 2464 + 576 = 3,040$  sq.cm.

53. (5) Let the sum be Rs.  $x$ .

ATQ,

$\frac{x \times 15 \times 5}{100 \times 12} - \frac{x \times 8 \times 4}{12 \times 100} = 129$

$\Rightarrow 75x - 32x = 129 \times 1200$

$\Rightarrow 43x = 129 \times 1200$

$\Rightarrow x = \frac{129 \times 1200}{43} = \text{Rs. } 3,600$

54. (2) Required probability =  $\frac{2_{c_1} \times 4_{c_2} \times 3_{c_3}}{9_{c_4}} = \frac{2 \times 6 \times 3}{18 \times 7} = \frac{2}{7}$

55. (2) Required average speed

$= \frac{30 + 30}{\frac{30}{6} + \frac{30}{3}} = \frac{60}{5 + 10} = 4$  km/hr.

56. (1) I.  $\sqrt{11025x} + \sqrt{4900} = 0$

$\Rightarrow 105x = -70$

$\Rightarrow x = -\frac{70}{105} = -\frac{2}{3}$

II.  $(81)^{\frac{1}{4}}y + (343)^{\frac{1}{3}} = 0$

$\Rightarrow 3y = -7 \Rightarrow y = -\frac{7}{3}$

Clearly,  $x > y$

57. (3) I.  $\frac{18}{x^2} + \frac{6}{x} - \frac{12}{x^2} = \frac{8}{x^2}$

$\Rightarrow \frac{18 + 6x - 12}{x^2} = \frac{18}{x^2}$

$\Rightarrow 6x = 2 \Rightarrow x = \frac{2}{6} = \frac{1}{3}$

II.  $y^2 + 9.68 + 5.64 = 16.95$

$\Rightarrow y^2 = 1.63$

$\Rightarrow y = \sqrt{1.63} = 1.27$

Clearly,  $x < y$

58. (5) I.  $\frac{727 + (11)^3}{6} = x^3$

$\Rightarrow 727 + 1331 = x^3$

$\Rightarrow 2058 = 6x^3$

$\Rightarrow x^3 = \frac{2058}{6} = 343$

$\Rightarrow x = 7$

II.  $4y^3 = -(1372 \div 4) + 5y^3$

$\Rightarrow y^3 = 343$

$\Rightarrow y = 7$

Clearly,  $x = y$

59. (2) I.  $12x^2 + 11x + 12 = 10x^2 + 22x$

$\Rightarrow 2x^2 - 11x + 12 = 0$

$\Rightarrow 2x^2 - 8x - 3x + 12 = 0$

$\Rightarrow 2x(x - 4) - 3(x - 4) = 0$

$\Rightarrow x = 4, \frac{3}{2}$

II.  $13y^2 - 18y + 3 = 9y^2 - 10y$

$\Rightarrow 4y^2 - 8y + 3 = 0$

$\Rightarrow 4y^2 - 2y - 6y + 3 = 0$

$\Rightarrow 2y(2y - 1) - 3(2y - 1) = 0$

$\Rightarrow y = \frac{1}{2}, \frac{3}{2}$

Clearly,  $x > y$

60. (5) I.  $\left( \frac{7}{x^5} \div 9 \right) = 169 \div x^5$

$\Rightarrow x^{\frac{7}{5}} = 169 \times 9$

$\Rightarrow x^2 = 169 \times 9$

$\Rightarrow x = 13 \times 3 = 39$

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II.  $y^{\frac{1}{4}} \times y^{\frac{1}{4}} \times 7 = 273 \div y^2$

$\Rightarrow y^{\frac{1+1}{2}} = \frac{273}{7}$

$\Rightarrow y = 39$   
Clearly,  $x = y$

61. (3)  $34928 - 2591 - 14986 = ?$

$\Rightarrow ? = 17351$

62. (3)  $27\% \text{ of } 450 - ?\% \text{ of } 375 = 76.5$

$\Rightarrow 450 \times \frac{27}{100} - 375 \times \frac{?}{100} = 76.5$

$\Rightarrow 375 \times \frac{?}{100} = 121.5 - 76.5$

$\Rightarrow ? = \frac{45 \times 100}{375} = 12$

63. (1)  $17\frac{2}{3} \times 1\frac{17}{106} = ? \Rightarrow ? = \frac{53}{3} \times \frac{123}{106} = \frac{41}{2} = 20\frac{1}{2}$

64. (2)  $(12 \times 19) + (13 \times 8) = (15 \times 14) + ?$

$\Rightarrow 228 + 104 = 210 + ?$

$\Rightarrow ? = 332 - 210 = 122$

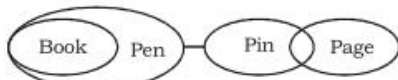
65. (1)  $7^{8.9} \div (343)^{1.7} \times (49)^{4.8} = 7^?$

$\Rightarrow 7^{8.9} \div (7)^{3 \times 1.7} \times (7)^{2 \times 4.8} = 7^?$

$\Rightarrow 7^{8.9} \div 7^{5.1} \times 7^{9.6} = 7^?$

$\Rightarrow ? = 8.9 - 5.1 + 9.6 = 13.4$

66. (4)



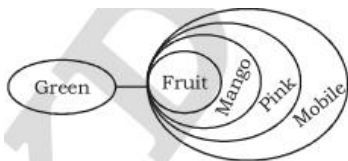
I. False II. False III. False  
None follows

67. (5)



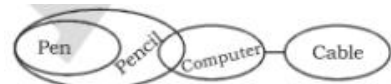
I. False II. True  
Only II follows

68. (5)



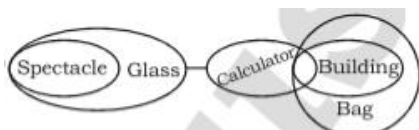
I. False II. True  
III. False IV. True

69. (1)



I. True II. False  
Only I follows

70. (2)



I. False II. True  
III. False  
Only II follows

71-75.

Day	Friend	Hill Station
Monday	Y	Manali
Tuesday	X	Nainital
Wednesday	Z	Nainital
Thursday	K	Ooty
Friday	L	Ooty
Saturday	J	Manali
Sunday	A	Manali

71. (3)

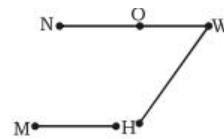
73. (1)

76. (2)

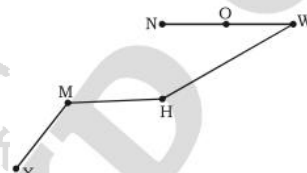
72. (4)

74. (4)

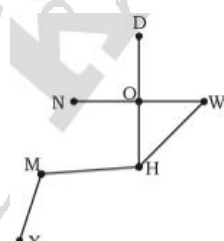
75. (3)



77. (4)



78. (1)

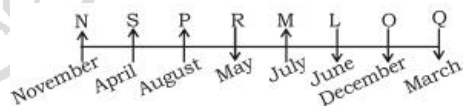


79-83.

79. (1)

81. (2)

84-85.



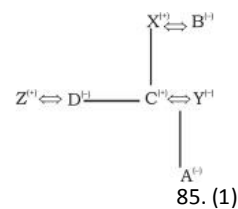
80. (5)

82. (4)

83. (3)

84. (2)

86-90.



85. (1)

Date →	15 <sup>th</sup>	28 <sup>th</sup>
Floor ↓		
4	Nayan(April)	Jayant(April)
3	Mohan(February)	—
2	Sunil(January)	Ayush(March)
1	Tanvir(March)	Uday(January)

86. (1)

88. (5)

87. (4)

89. (3)

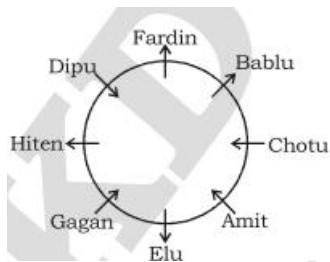
90. (5)

## Grand Test – SCP-180549



- 91.(4)  $R \geq P \leq U \geq K$   
I.  $K > R \rightarrow$  False  
 $R \geq P \leq U < L$   
II.  $L > R \rightarrow$  False  
Neither I nor II is true
- 92.(3)  $H = I \leq R \leq M$   
I.  $M = I \rightarrow$  Doubt  
II.  $M > I \rightarrow$  Doubt  
Either I or II is true
- 93.(2)  $S > I \leq H > N$   
I.  $N \leq S \rightarrow$  False  
II.  $N < D \rightarrow$  True  
Only II is true
- 94.(2)  $W < Y < P \leq O < I$   
I.  $Y \leq I \rightarrow$  False  
II.  $O > W \rightarrow$  True  
Only II is true
95. (4)  $A \leq B > C > Z$   
I.  $A > Z \rightarrow$  False  
 $E > D \geq C \leq F$   
II.  $F < E \rightarrow$  False  
Neither I nor II is true

96-100.



96. (2)  
98. (1)

97. (3)  
99. (2)

100. (3)

