

SBI Clerk Preliminary Grand Test –SCP-180554

HINTS & SOLUTIONS

ANSWER KEY

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

HINTS & SOLUTIONS

- | | | |
|---------|--|---------|
| 1. (4) | 2. (1) | 3. (2) |
| 4. (5) | 5. (2) | 6. (1) |
| 7. (2) | 8. (3) | 9. (5) |
| 10. (4) | | |
| 11. (2) | Insert 'is' before 'alleged'. | |
| 12. (4) | Change 'undergoes' with 'undergo'. | |
| 13. (2) | Change 'force' with 'forced'. | |
| 14. (1) | Change 'this' with 'these'. | |
| 15. (5) | No error. | |
| 16. (3) | Change 'enjoyed' with 'enjoy'. | |
| 17. (1) | Change 'on' with 'in'. | |
| 18. (4) | Change 'bringing' with 'bring'. | |
| 19. (4) | Change 'for' with 'to'. | |
| 20. (3) | Insert 'been' after 'have'. | |
| 21. (3) | 22. (5) | 23. (3) |
| 24. (4) | 25. (2) | 26. (3) |
| 27. (4) | 28. (1) | 29. (3) |
| 30. (5) | | |
| 31. (4) | I. $x^2 - 300 = 325$
$\Rightarrow x^2 = 325 + 300$
$\Rightarrow x^2 = 625$ | |

$$\Rightarrow x = +25, -25$$

$$\text{II. } y - \sqrt{144} = \sqrt{169}$$

$$\Rightarrow y - 12 = 13$$

$$\Rightarrow y = 13 + 12 = 25$$

Clearly, $x \leq y$

$$32. (1) \text{ I. } x^2 + 12x + 32 = 0$$

$$\Rightarrow +8x + 4x + 32 = 0$$

$$\Rightarrow x(x + 8) + 4(x + 8) = 0$$

$$\Rightarrow x = -4, -8$$

$$\text{II. } y^2 + 19y + 90 = 0$$

$$\Rightarrow y^2 + 10y + 9y + 90 = 0$$

$$\Rightarrow y(y + 10) + 9(y + 10) = 0$$

$$\Rightarrow y = -10, -9$$

Clearly, $x > y$

$$33. (1) \text{ I. } x^2 - 23y + 132 = 0$$

$$\Rightarrow x^2 - 12y - 11y + 132 = 0$$

$$\Rightarrow x(x - 12) - 11(y - 12) = 0$$

$$\Rightarrow x = 12, 11$$

$$\text{II. } y^2 + 13y + 42 = 0$$

$$\Rightarrow y^2 + 6y + 7y + 42 = 0$$

$$\Rightarrow y(y + 6) + 7(y + 6) = 0$$

$$\Rightarrow y = -6, -7$$

Clearly, $x > y$

$$34. (3) \text{ I. } y^2 - x^2 = 32$$

$$\Rightarrow (y + x)(y - x) = 32 \quad \dots(i)$$

$$y - x = 4 \quad \dots(ii)$$

Equation (i) + (ii), we get

$$y + x = 8 \quad \dots(iii)$$

Equation (ii) + (iii), we get

$$2y = 12$$

$$\Rightarrow y = 6$$

Put the value of y in equation (iii),

$$6 + x = 8$$

$$\Rightarrow x = 2$$

Clearly, $x < y$

$$35. (1) \text{ I. } x^2 - 15x + 56 = 0$$

$$\Rightarrow x^2 - 8x - 7x + 56 = 0$$

$$\Rightarrow x(x - 8) - 7(x - 8) = 0 \Rightarrow x = 8, 7$$

$$\text{II. } y^2 + 17y + 72 = 0$$

$$\Rightarrow y^2 + 8y + 9y + 72 = 0$$

$$\Rightarrow y(y + 8) + 9(y + 8) = 0 \Rightarrow y = -8, -9$$

Clearly, $x > y$

$$36. (4) \text{ SP} = 2160 \times \frac{125}{100} = \text{Rs.} 2,700$$

$$\therefore \text{MP} = \frac{2700}{90} \times 100 = \text{Rs.} 3000$$

$$37. (3) \text{ Let the present age of P and Q are } 3x \text{ and } 5x \text{ respectively.}$$

$$\text{ATQ, } \frac{3x + 6}{5x + 6} = \frac{2}{3}$$

$$\Rightarrow 9x + 18 = 10x + 12 \Rightarrow x = 6$$

$$\therefore \text{Present age of Q} = 6 \times 5 = 30 \text{ years}$$

- 38.(1) Upstream speed = $\frac{36}{4} = 9$ km/hr
 Speed of stream = $12 - 9 = 3$ km/hr
39. (4) Ratio of their profit
 = $15000 \times 12 : (12000 \times 6 + 15000 \times 6) : (18000 \times 6 + 12000 \times 6)$
 = $180000 : 162000 : 180000 = 10 : 9 : 10$
 \therefore Share of Bhuvan = $\frac{6670}{29} \times 9 = \text{Rs.}2,070$
40. (3) Water = $\frac{68}{17} \times 11 = 44$ litres
 Wine = $68 - 44 = 24$ litres
 ATQ, $\frac{44}{24+x} = \frac{4}{3}$
 $\Rightarrow 96 + 4x = 132 \Rightarrow 4x = 132 - 96$
 $\Rightarrow x = \frac{36}{4} = 9$ litres
- 41.(5) Total number of Manager in HDFC = $545 - (288 + 128 + 38) = 91$
 Required total number of women
 = $\frac{288}{12} \times 5 + \frac{128}{16} \times 9 + \frac{91}{13} \times 7 + \frac{38}{19} \times 7$
 = $120 + 72 + 49 + 14 = 255$
42. (1) Total number of PO in PNB = $683 - (427 + 76 + 45) = 135$
 Total number of men who are PO in PNB
 = $\frac{135}{27} \times 11 = 55$
 Required% = $\left(\frac{55}{683} \times 100\right)\% = 8.05\% = 8\%$
- 43.(5) Total number of Clerks in OBC = $657 - (156 + 87 + 54) = 360$
 Required number of men
 = $\frac{325}{13} \times 7 + \frac{427}{7} \times 5 + \frac{288}{12} \times 7 + \frac{360}{8} \times 5 + \frac{465}{31} \times 17$
 = $175 + 305 + 168 + 225 + 255 = 1,128$
44. (2) T = $735 - (465 + 144 + 48) = 78$
 P = $568 - (325 + 126 + 85) = 32$
 Q = $683 - (427 + 76 + 45) = 135$
 Required total = $78 + 32 + 135 = 245$
45. (5) R = $545 - (288 + 128 + 38) = 91$
 T + R = $78 + 91 = 169$
 P + Q + R = $32 + 135 + 91 = 258$
 Required% = $\left(\frac{91}{258} \times 100\right)\% = 35.27\% = 35\%$
46. (1) Required total
 = $\frac{72000}{360} \times \left(90 \times \frac{3}{5} + 75 \times \frac{3}{4} + 63 \times \frac{4}{7}\right)$
 = $200 \times (54 + 56.25 + 36)$
 = $200 \times 146.25 = 29,250$
 \therefore Required average = $\frac{29250}{3} = 9,750$
47. (3) Female students from Bihar
 = $72000 \times \frac{60}{360} \times \frac{1}{3} = 4,000$
 Male students from Punjab
 = $72000 \times \frac{72}{360} \times \frac{5}{8} = 9,000$
 \therefore Required more% = $\left(\frac{9000 - 4000}{9000} \times 100\right)\%$
 = $55.55\% = 56\%$ less

48. (5) Number of students from Delhi
 = $72000 \times \frac{75}{360} \times \frac{90}{100} = 13,500$
 Number of students from Assam
 = $72000 \times \frac{63}{360} \times \frac{110}{100} = 13,860$
 \therefore Required less% = $\left(\frac{13860 - 13500}{13860} \times 100\right)\% = 2.59\%$
49. (2) Required total number of students
 = $\frac{72000}{360} \times (90^0 + 60^0 + 72^0)$
 = $200 \times 222 = 44,400$
50. (3) The number series is as follows:
 $240 \div 5 = 48$
 $48 \div 4 = 12$
 $12 \div 3 = 4$
 $4 \div 2 = 2$
 $2 \div 1 = 2$
51. (2) The number series is as follows:
 $7 \quad 12 \quad 19 \quad 28 \quad 39 \quad 52$
 $+5 \quad +7 \quad +9 \quad +11 \quad +13$
52. (4) The number series is as follows:
 $19 \times 2 - 9 = 29$
 $29 \times 2 - 8 = 50$
 $50 \times 2 - 7 = 93$
 $93 \times 2 - 6 = 180$
 $180 \times 2 - 5 = 355$
 $355 \times 2 - 4 = 706$
- 53.(3) The number series is as follows:
 $16 \quad 34 \quad 19 \quad 40 \quad 22 \quad 46$
 $+3 \quad +6 \quad +3 \quad +6$
54. (1) The number series is as follows:
 $12 \times 0.5 + 2 = 8$
 $8 \times 1.5 + 4 = 16$
 $16 \times 2.5 + 8 = 48$
 $48 \times 3.5 + 16 = 184$
 $184 \times 4.5 + 32 = 860$
- 55.(2) Let the principal and rate be P and r respectively.
 ATQ, $\frac{P \times (r+4) \times 2}{100} - \frac{P \times r \times 2}{100} = 120$
 $\Rightarrow \frac{2Pr + 8p}{100} - \frac{2pr}{100} = 120$
 $\Rightarrow 8p = 120 \times 100$
 $\Rightarrow P = \frac{120 \times 100}{8} = \text{Rs.}1,500$
56. (2) Milk = 75 litres
 After $\frac{2}{5}$ th of milk is replaced by water, the quantity of
 Milk = 45 litres
 Water = 30 litres
 Again $\frac{2}{5}$ th of mixtures is replaced by water, the quantity
 of
 Milk = $45 \times \frac{3}{5} = 27$ litres
 Water = $30 \times \frac{3}{5} + 30 = 48$ litres
 \therefore Required ratio = $27 : 48 = 9 : 16$

Grand Test – SCP-180554



58.(5) Required correct average

$$= \frac{33 \times 72 + (68 - 31 + 71 - 45 + 42 - 39)}{33}$$

$$= \frac{2376 + 37 + 26 + 3}{33} = \frac{2442}{33} = \frac{2442}{33} = 74$$

59. (4) Let the ratio between S and N's age two years ago be x and 3x respectively.

ATQ, $\frac{x+2+10}{3x+2+10} = \frac{7}{9}$
 $\Rightarrow 9x + 108 = 21x + 84$
 $\Rightarrow 12x = 24 \Rightarrow x = 2$

\therefore A's present age = $2 \times 3 + 2 + 4 = 12$ years

60. (3) Amount invested in first scheme = Rs. 20,000
 Amount invested in second scheme
 $= \frac{20000}{5} \times 4 = \text{Rs. } 16,000$

\therefore SI of first scheme = $\frac{20000 \times 8 \times 5}{100}$

= Rs. 8,000 and bonus = $8000 \times \frac{20}{100} = \text{Rs. } 1,600$

SI of second scheme = $\frac{16000 \times 5 \times 9}{100} = \text{Rs. } 7,200$

\therefore Total interest = $8000 + 1600 + 7200 = \text{Rs. } 16,800$

61. (1) $13 \times 6 + 152 + 75 = 158 + ?$
 $\Rightarrow 78 + 152 + 75 = 158 + ?$
 $\Rightarrow ? = 305 - 158 = 147$

62.(3) $54 \times 15 \div 6 - 64 = ? - 119$
 $\Rightarrow \frac{54 \times 15}{6} - 64 = ? - 119$
 $\Rightarrow 135 - 64 = ? - 179$
 $\Rightarrow ? = 71 + 119 = 190$

63. (3) $2\frac{1}{4} + 1\frac{1}{3} - 4\frac{1}{2} = ?$
 $\Rightarrow \frac{9}{4} + \frac{4}{3} - \frac{9}{2} = ?$
 $\Rightarrow ? = \frac{27 + 16 - 54}{12} = \frac{11}{12}$

64. (5) $(23 \times 8) - (13 \times 5) + 67 = ? \times 6$
 $\Rightarrow 184 - 65 + 67 = ? \times 6$
 $\Rightarrow ? = \frac{186}{6} = 31$

65. (5) $(15)^2 - (5)^3 + \sqrt{625} + 44 = (?)^2$
 $\Rightarrow 225 - 125 + 25 + 44 = (?)^2$
 $\Rightarrow (?)^2 = 169 \Rightarrow ? = 13$

66.(3) $E \geq F = G > T = I$
 I. $I < E \rightarrow$ Doubt
 II. $I = E \rightarrow$ Doubt
 Either Conclusion I or II is true

67. (1) $G > H > J$
 I. $J < G \rightarrow$ True
 II. $F < H \rightarrow$ False
 Only conclusion I is true

68. (2) $V > W < X < Y, \quad V > W < X < Z$
 I. $Z > V \rightarrow$ False
 II. $Y > W \rightarrow$ True
 Only conclusion II is true

69. (1) $M > N > P < O, M > N > P > S$
 I. $S < M \rightarrow$ True
 II. $O < M \rightarrow$ False

Only conclusion I is true

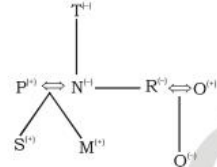
70. (1) $M > A > E > F < G$

I. $M > E \rightarrow$ True

II. $G < A \rightarrow$ False

Only conclusion I is true

71-73.

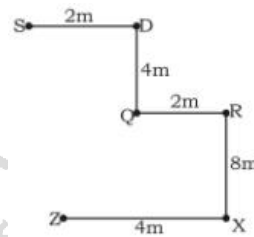


71. (3)

72. (2)

73. (1)

74-75.



74. (3)

75. (2)

76-80.

Student	Month	Date
Fardin	October	10th
Eshan	October	15 th
Aman	October	25 th
Dayal	October	31 st
Gandhi	December	10 th
Hemant	December	15 th
Chandan	December	25 th
Bhanu	December	31 st

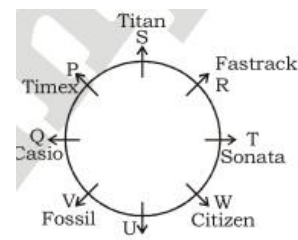
76. (2)

77. (5)

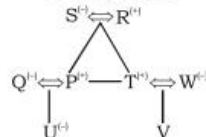
78. (4)

79. (4)

80. (3)



Family Tree



81. (3)

82. (4)

83. (1)

84. (5)

85. (2)

Grand Test – SCP-180554



86-90.

committee to analysis exams es fr re pt
 analysis gathering in evening ch ba mo fr
 gathering to nominate persons re dv ch gi
 nominate chairman in analysis mo gi fr yu

To → re
 nominate → gi
 in → mo
 chairman → yu
 gathering → ch
 analysis → fr
 person → dv
 evening → ba

86. (4)

87. (2)

88. (3)

89. (5)

90. (2)

91-95.

Person	Day	Country
Nayan	Monday	Japan
Kartik	Thursday	America
Tarun	Wednesday	China
Bhuvan	Friday	Italy
Manjesh	Saturday	India
Wasim	Sunday	Russia
Rahul	Tuesday	Spain

91. (5)

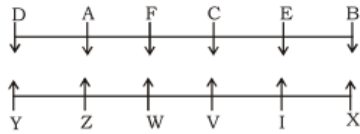
92. (4)

93. (3)

94. (1)

95. (2)

96-100.



96. (1)

97. (3)

98. (4)

99. (2)

100. (1)

