SBI Clerk Preliminary Grand Test –SCP-180550

HINTS & SOLUTIONS

ANSWER KEY

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

HINTS & SOLUTIONS

1. (2) 2. (2) 3. (4)
4. (1) 5. (3) 6. (2)
7. (5) 8. (3) 9. (4)
10. (2) 11. (3) 12. (3)
13. (2) 14. (4) 15. (1)

16. (2) Replace lied' with 'lying' as his this position as continuing.
17. (2) Replace 'for finding' with 'to find'.
18. (3) Replace 'unscrupulously' with 'unscrupulous' as it is here qualifying a noun (elements).
19.(4) Replace 'resist' with 'resisted' as the sentence is in past.
20. (1) Replace 'could not maintain' with 'could not be maintained' because the verb should 1.

21. (3) 22. (2) 23. (1)
24. (5) 25. (4) 26. (3)
27. (2) 28. (1) 29. (4)
30. (5)

31. (3) Let the CP_1 = Rs. 100

$SP_1 = 100 \times \frac{125}{100} = Rs.125$

$CP_2 = 100 \times \frac{80}{100} = Rs.80$

$SP_2 = 80 \times \frac{120}{100} = Rs.96$

ATQ, $(125 - 96) \rightarrow 580$

$\Rightarrow 29 \rightarrow 580$

$\Rightarrow 100 \rightarrow \frac{580}{29} \times 100 = Rs.2,000$

32. (4) P + CI of 4 yrs = Rs. 7,216 **...(i)**
P + CI of 5 yrs = Rs. 7,937.60 **...(ii)**
Equation (ii) – (i), we get,
CI of 5^{th} year = 7937.6 – 7216 = Rs. 721.60
Principal for 5^{th} year = Rs. 7216

$\therefore r = \frac{721.6 \times 100}{7216 \times 1} = 10\%$

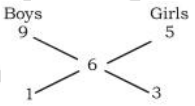
33. (1) A receives the managing the business

$= 10500 \times \frac{15}{100} = Rs.1575$

$\therefore$ Remaining profit = 10500 – 1575 = Rs. 8,925
$\therefore$ Ratio of P and Q' Shame = 20000 : 30000 = 2 : 3
$\therefore$ Share of Q = $\frac{8925}{5} \times 3$ = Rs. 5,355

34. (3) Required monthly consumption = $\frac{108}{117} \times 13$ = 12 kg

35. (1) Mean value of sweets per students = $\frac{312}{52}$ = 6 sweets



$\therefore$ Number of boys = $\frac{52}{4} \times 1$ = 13
$\therefore$ Number of girls = 52 – 13 = 39

36. (2) I. $x^2 - 11x + 24 = 0$
$\Rightarrow x^2 - 8x - 3x + 24 = 0$
$\Rightarrow x(x - 8) - 3(x - 8) = 0$
$\Rightarrow x = 8, 3$
II. $2y^2 - 9y + 9 = 0$
$\Rightarrow 2y^2 - 6y - 3y + 9 = 0$
$\Rightarrow 2y(y - 3) - 3(y - 3) = 0$
$\Rightarrow y = 3, \frac{3}{2}$
Clearly, $x \geq y$

37.(1) I. $5x = 16 \Rightarrow x = \frac{16}{5}$
II. $y^3 \times 14 = 351 + y^3$
$\Rightarrow 14y^3 - y^3 = 351 \Rightarrow 13y^3 = 351$
$\Rightarrow y^3 = \frac{351}{13} = 27 \Rightarrow y = 3$
Clearly, x > y

38.(3) $3x^2 - 13x + 14 = 0$
$\Rightarrow x^2 - 6x - 7x + 14 = 0$
$\Rightarrow 3x(x - 2) - 7(x - 2) = 0$
$\Rightarrow x = 2, \frac{7}{3}$

II. $y^2 - 7y + 12 = 0$

$\Rightarrow y^2 - 4y - 3y + 12 = 0$

$\Rightarrow y(y-4) - 3(y-4) = 0 \Rightarrow y = 4, 3$

Clearly, x < y

39.(5) I. $(441)^{\frac{1}{2}x^2} - 111 = (15)^2$

$\Rightarrow 21x^2 = 225 + 111 \Rightarrow x^2 = 16 \Rightarrow x = +4, -4$

II. $\sqrt{121}y^2 + 6^3 = 260$

$\Rightarrow 11y^2 = 260 - 216$

$\Rightarrow y^2 = 44 \Rightarrow y^2 = 4 \Rightarrow y = +2, -2$

40.(1) I. $5x + 2y = 96$ ...(i)

$3(7x + 5y) = 489$ ...(ii)

Equation (i) × 15 – equation (ii) × 2,

we get,

$75x + 30y - 42x - 30x = 1440 - 978$

$\Rightarrow 33x = 462 \Rightarrow x = 14$

Put the value of x is equation (i),

$5 \times 14 + 2y = 96$

$\Rightarrow 2y = 96 - 70 \Rightarrow 2y = 26 \Rightarrow y = 13$

Clearly, x > y

41. (4) Required number of cycles = $550 \times \frac{80}{100} \times \frac{60}{100} = 264$

42. (1) Required number of cycles =

$(850 + 450 + 720 + 650 + 420) \times \frac{70}{100} = 2,163$

43. (3) Total number of cycles sold by

shopkeeper R = 3770

shopkeeper S = 3090

$\therefore$ Required ratio = 3770 : 3090 = 377 : 309

44. (4) Required % = $\left(\frac{1000 - 650}{650} \times 100\right)\% = 53.84\% \approx 54\%$

45. (3) Required number of cycles

$= (800 + 650 + 850 + 420 + 850) \times \frac{90}{100} = 3,213$

46. (1) Rate = $\frac{SI \times 100}{Principal \times Time} = \frac{10230 \times 100}{27500 \times 3} = 12.4\%$

$\therefore C.I = P\left[\left(1 + \frac{R}{100}\right)^T - 1\right] = 27500\left[\left(1 + \frac{12.4}{100}\right)^3 - 1\right]$

$= 27500\ (1.42 - 1) = 27500 \times 0.42 = Rs.11,550$

47.(5) According to question,

Selling Price = $\frac{6500 \times 95}{100} = Rs.6175$

$\therefore$ Cost Price = $\frac{6175}{115} \times 100 = Rs.\ 5269.56 = Rs.5,369$

48. (5) Side of the square = $\sqrt{1024}$ = 32 cm.

$\therefore$ Length of rectangle = 2 × 32 = 64 cm.

Breadth of rectangle = 32 - 12 = 20 cm.

$\therefore$ Required ratio = 64 : 20 = 16 : 5

49. (1) Required probability = $\frac{^5C_2}{^7C_2} = \frac{10}{21}$

50. (3) Four years ago,

Shyam : Ram = 3 : 4

After four years,

$\frac{3x + 8}{4x + 8} = \frac{5}{6}$

$\Rightarrow 20x + 40 = 18x + 48$

$\Rightarrow 2x = 48 - 40 = 8 \Rightarrow x = \frac{8}{2} = 4$

$\therefore$ Shyam's present age = 3x + 4 = 3 × 4 + 4 = 16 years

51. (1) Required difference

= [(46 + 64 + 72) – (62 + 48 + 36)] × 100 = 5,100

52. (4) Required difference

$= \left[70 \times \frac{120}{100} - 30 \times \frac{110}{100}\right] \times 100 = 5,100$

53.(3) Number of students enrolled in college B in October

$= \frac{72 + 76}{2} \times 100 = 7,400$

Required number of students = $\frac{7400}{2} = 3,700$

54. (5) Total number of students in March 2017

$= (84 + 38) \times \frac{140}{100} \times 100 = 17,080$

Number of students in college A in March 2017

$= 84 \times \frac{125}{100} \times 100 = 10,500$

Required number of students = 17080 - 10500 = 6,580

55. (4) Required ratio = (62 + 14) : (30 + 72) = 76 : 102 = 38 : 51

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

240 48 12 4 2 **2**

÷5 ÷4 ÷3 ÷2 ÷1

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

7 8 4 13 –3 22 **–14**

+5 +9

–3 –7 –11

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

$640 - 2^8 = 384$

$384 - 2^7 = 256$

$256 - 2^6 = 192$

$192 - 2^5 = 160$

$160 - 2^4 =$ **144**

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

$11 + (16 \times 1) = 27$

$27 + (16 \times 2) = 59$

$59 + (16 \times 3) = 107$

$107 + (16 \times 4) = 171$

$171 + (16 \times 5) = 251$

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

$3 + 1^2 = 4$

$4 + 3^2 = 13$

$13 + 5^2 = 38$

$38 + 7^2 = 87$

$87 + 9^2 =$ **168**

61. (1) $368 \div 23 \times 9 - 104 = ? - 43$

$\Rightarrow \frac{368}{23} \times 9 - 104 = ? - 43 \Rightarrow ? = 40 + 43 = 83$

62.(4) $11.71 - 0.86 + 1.78 - 9.20 = ? \Rightarrow ? = 3.43$

63. (5) $5^2 - 4^2 - 7^2 - 6^2 = \sqrt{?}$

$\Rightarrow 25 - 16 - 49 - 36 = \sqrt{?}$

$\Rightarrow \sqrt{?} = -76 \Rightarrow ? = 5776$

64. (1) $8^{(2.4)} \times 2^{(3.7)} \div 16^{(1.3)} = 2^{(?)}$

$\Rightarrow (2)^{3 \times 2.4} \times (2)^{3.7} \div (2)^{4 \times 1.3} = (2)^?$

$\Rightarrow 2^{7.2} \times 2^{3.7} + 2^{5.2} = 2^?$

$\Rightarrow ? = 7.2 + 3.7 - 5.2 = 5.7$

65. (2) $84 \times 9 \div 12 - 36 + 101 = ?$

$\Rightarrow ? = \frac{84 \times 9}{12} - 36 + 101 = 63 - 36 + 101 = 128$

66. (2) $F \geq G = H > J \geq K$
I. $F \geq K \rightarrow$ False II. $K < H \rightarrow$ True
Only conclusion II is true

67. (4) $P \leq Q = R \geq S \leq T$
I. $T \geq Q \rightarrow$ False II. $R > P \rightarrow$ False
Neither conclusion I nor II is true

68. (1) $D \leq A \leq B < C \leq F$
I. $D < C \rightarrow$ True II. $F \geq D \rightarrow$ False
Only conclusion I is true

69. (4) $U > A = I \leq O < E$
I. $I \leq E \rightarrow$ False II. $O > U \rightarrow$ False
Neither conclusion I nor II is true

70. (1) $K > L = M \geq C$
$K > L = M > P$
I. $K > P \rightarrow$ True II. $K < C \rightarrow$ False
Only conclusion I is true

71-75.

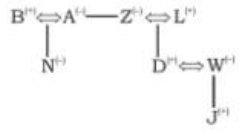
71. (1) 72. (1)
73. (4) 74. (4) 75. (1)

76-80.

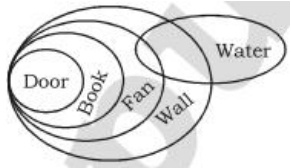
Floor	Banker	Bank
9	R	Union Bank
8	M	BOB
7	C	Indian Bank
6	A	BOM
5	P	Axis Bank
4	D	ICICI
3	V	HDFC
2	L	Canara Bank
1	G	SBI

76. (4) 77. (5)
78. (3) 79(4) 80. (1)

81-83.

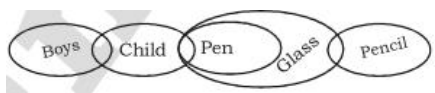


81. (1) 82. (4) 83. (1)
84.(5)



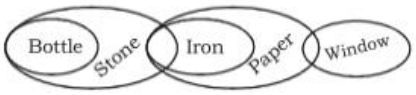
I. True II. True
III. True IV. True
All follow

85. (4)



I. False II. True
III. True IV. False
Only II and III follow

86. (2)

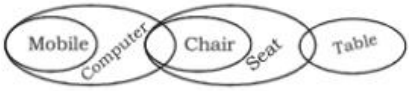


I. False II. True
II. True IV. False
Only II and III follow

87. (1)

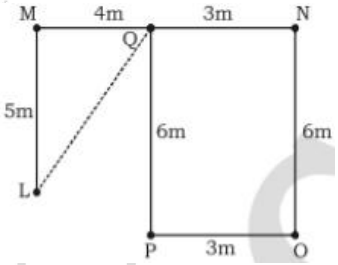
I. False II. False
III. False IV. False
None follows

88. (4)



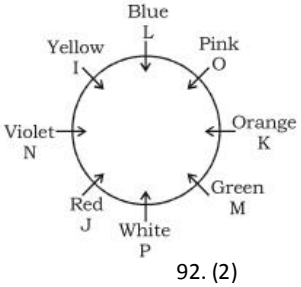
I. True II. True
III. True IV. True
All follow

89-90.



89. (3) QL = $\sqrt{5^2+4^2} = \sqrt{25+16} = \sqrt{41}$m
90. (4)

91-95.



91. (5) 92. (2)
93. (2) 94. (5) 95. (4)

96-100.

Bowl Number	Colour
6	White
2	Black
4	Pink
5	Red
3	Yellow
7	Blue
1	Grey

96. (3) 97. (5)
98. (3) 99. (1) 100. (5)