

SBI PO Preliminary Grand Test –SPP-180417

HINTS & SOLUTIONS

ANSWER KEY

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

HINTS & SOLUTIONS

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|---------|--|---------|
| 1. (1) | 2. (1) | |
| 3. (5) | 4. (3) | 5. (4) |
| 6. (5) | 7. (4) | |
| 8. (1) | 9. (2) | 10. (4) |
| 11. (5) | 12. (3) | |
| 13. (2) | 14. (2) | 15. (1) |
| 16.(5) | 17.(5) | |
| 18.(1) | 19.(4) | 20.(2) |
| 21. (5) | relying, alternative | |
| 22. (3) | opportunities, unemployable | |
| 23. (2) | provoked, fear | |
| 24. (4) | Action, expired | |
| 25. (1) | economies, meet | |
| 26.(2) | Here, due to lack of interest in better part of people should be used. The sentence shows cause. | |
| 27.(2) | Here, a booming (Adjective) business fuelled should be used. An Adjective qualifies a Noun. | |
| 28.(1) | 'So..... that' is correct form of correlative. Hence, so much is the inflow of travellers that should be used. | |
| 29.(3) | Here, is leading/leads to a proportionate should be used. The structure of a sentence in Present Progressive : Subject + is I am I are + Verb + ing (V ₄) | |

30.(3) 'Either.....or' is correct form of correlative. Hence, either dried up or are suffering should be used.

31. (1) I. $x^2 - 14x + 48 = 0$
 $\Rightarrow x^2 - 8x - 6x + 48 = 0$
 $\Rightarrow x(x - 8) - 6(x - 8) = 0$
 $\Rightarrow (x - 6)(x - 8) = 0$
 $\therefore x = 6 \text{ or } 8$
 II. $y^2 - 5y + 6 = 0$
 $\Rightarrow y^2 - 3y - 2y + 6 = 0$
 $\Rightarrow y(y - 3) - 2(y - 3) = 0$
 $\Rightarrow (y - 2)(y - 3) = 0$
 $\therefore y = 2 \text{ or } 3$
 Clearly, $x > y$

32. (4) I. $x^2 + 9x + 20 = 0$
 $\Rightarrow x^2 + 5x + 4x + 20 = 0$
 $\Rightarrow x(x + 5) + 4(x + 5) = 0$
 $\Rightarrow (x + 4)(x + 5) = 0$
 $\therefore x = -4 \text{ or } -5$
 II. $y^2 + 7y + 12 = 0$
 $\Rightarrow y^2 + 4y + 3y + 12 = 0$
 $\Rightarrow y(y + 4) + 3(y + 4) = 0$
 $\Rightarrow (y + 3)(y + 4) = 0$
 $\therefore y = -3 \text{ or } -4$
 Clearly, $x \leq y$

33. (4) I. $x^2 = 529$ $\therefore x = \sqrt{529} = \pm 23$
 II. $y = \sqrt{529} = \pm 23$
 Clearly, $x \leq y$

34. (2) I. $x^2 + 13x + 42 = 0$
 $\Rightarrow x^2 + 7x + 6x + 42 = 0$
 $\Rightarrow x(x + 7) + 6(x + 7) = 0$
 $\Rightarrow (x + 6)(x + 7) = 0$
 $\therefore x = -6 \text{ or } -7$
 II. $y^2 + 16y + 63 = 0$
 $\Rightarrow y^2 + 9y + 7y + 63 = 0$
 $\Rightarrow y(y + 9) + 7(y + 9) = 0$
 $\Rightarrow (y + 9)(y + 7) = 0$
 $\therefore y = -9 \text{ or } -7$
 Clearly, $x \geq y$

35. (3) I. $2x + 3y = 14$ II. $4x + 2y = 16$
 By equation I $\times 2$ - equation II, we have
 $4x + 6y - 12x - 6y = 28 - 48$
 $\Rightarrow -8x = -20 \Rightarrow x = \frac{20}{8} = \frac{5}{2}$
 From equation I,
 $2 \times \frac{5}{2} + 3y = 14$
 $\Rightarrow 3y = 14 - 5 = 9 \Rightarrow y = \frac{9}{3} = 3$
 Clearly, $x < y$

Grand Test – SPP-180417



36. (1) Required average

$$= \frac{534 + 234 + 126 + 478}{4} = \frac{1372}{4} = 343$$
37. (2) Required answer = 675 + 1145 + 454 + 810 + 666 = 3750
38. (3) Required difference = 1709 - 1169 = 540
39. (5) Required percentage = $\frac{243 - 126}{126} \times 100 = 93$
40. (2) Total length of cloth
 = (130 x 30 + 75) cm = (3900 + 75) cm. = 3975 cm
 = 39.75 metre [\because 100 cm. = 1 metre]
41. (3) From the options,
 $15^2 + 17^2 = 225 + 289 = 514$
42. (1) Two years ago
 Ramesh's age = 6x years
 Ankur's age = 9x years
 After two years from today,

$$\frac{6x + 4}{9x + 4} = \frac{9}{11}$$

$$\Rightarrow 81x + 36 = 66x + 44$$

$$\Rightarrow 81x - 66x = 44 - 36$$

$$\Rightarrow 15x = 8$$

$$\Rightarrow x = \frac{8}{15}$$
- \therefore Ankur's present age = $\left(9 \times \frac{8}{15} + 2\right)$ years

$$= \left(\frac{24}{5} + 2\right)$$
 years = $\frac{34}{5}$ years = 6.8 years
43. (2) Part of tank filled in 1 minute by two pipes and the leak

$$= \frac{1}{15} + \frac{1}{25} - \frac{1}{30} = \frac{10 + 6 - 5}{150} = \frac{11}{150}$$

$$\therefore \text{Required time} = \frac{150}{11} = 13\frac{7}{11} \text{ minutes}$$
44. (3) Total balls in the urn = 9 + 5 + 7 = 21
 One ball will be white while other ball will be either blue or black.
 \therefore Total possible outcomes = Selection of 2 balls out of 21

$$\text{balls} = {}^{21}C_2 = \frac{21 \times 20}{1 \times 2} = 210$$
 Total favourable outcomes = Selection of 1 ball out of 5 white balls and selection of 1 ball out of 16 remaining balls. = ${}^5C_1 \times {}^{16}C_1 = 5 \times 16 = 80$

$$\therefore \text{Required probability} = \frac{80}{210} = \frac{8}{21}$$
45. (2) Area of circle = $\Pi r^2 = \frac{22}{7} \times 14 \times 14 = 616$ sq.cm.
 \therefore Area of rectangle = 1166 - 616 = 550 sq.cm.
 Breadth of rectangle = $\frac{550}{25} = 22$ cm.
 \therefore Circumference of circle

$$= \Pi \times \text{diameter} = \frac{22}{7} \times 28 = 88$$
cm.
 Perimeter of rectangle
 = 2 (length + breadth) = 2 (25 + 22) = 94 cm.
 Required sum = 88 + 94 = 182 cm.

46. (3) Total marks = $[1/100] \times [70 \times 150 + 50 \times 120 + 56 \times 50 + 58 \times 50 + 57 \times 100 + 54.5 \times 200] = 388$
47. (4)
48. (2) C in subject S = 54% of 50 = 27
 D in subject Q = 55% of 120 = 66
 Required percentage = $[27/66] \times 100 = \text{approx. } 41\%$
49. (5) Student A in subject R + C in subject U = 26 + 114 = 140
 Student B in subject R + D in subject P = 28 + 72 = 100
 Difference = 40
50. (4) Total marks secured by E = 84 + 48 + 24 + 23 + 53 + 105 = 337
 Maximum marks = 150 + 120 + 50 + 50 + 100 + 200 = 670
 Aggregate percentage = $[337/670] \times 100 = 50.3\%$
 Formula used: Income = Expenditure + Profit
51. (3)
52. (4)
53. (5)
54. (1)
55. (3)
56. (1) Required percentage = $\frac{285}{540} \times 100 = 53\%$
57. (3) Required average quantity of food grains produced by farmer T

$$= \left(\frac{190 + 285 + 315 + 240 + 265}{5}\right) \text{kg}$$

$$= \left(\frac{1295}{5}\right) \text{kg} = 259 \text{kg}$$
58. (5) It is obvious from the table.
 Farmer S

$$\Rightarrow 150 + 460 + 480 + 350 + 200 = 1640 \text{ kg}$$
59. (2) Required ratio
 = (280 + 190 + 130) : (115 + 140)
 = 600 : 255 = 40 : 17
60. (4) Required difference
 = (350 - 140) kg
 = 210 kg
61. (5) ? = 54.2 + 13.52 - 0.52 - 0.56 - 0.07 = 67.72 - 1.15 = 66.57
62. (4) $(?)^3 = \sqrt{1024} \times 40 + 448$
 = $32 \times 40 + 448 = 1280 + 448 = 1728$
 $\Rightarrow (?)^3 = (12)^3 \Rightarrow ? = 12$
63. (5) 255.4 + 542.3 - ? = 1014.3 - 499.4

64. (2) $\Rightarrow 797.7 - ? = 514.9 \Rightarrow ? = 797.7 - 514.9 = 282.8$
 $? = 0.5 \times 5.6 + 2.5 \times 8.5 + 164.85$
 $= 2.8 + 21.25 + 164.85 = 188.9$
 65. (2) $\frac{120 \times 675}{100} + 92 = \frac{? \times 1240}{100} + 716 = \frac{? \times 124}{10}$
 $\Rightarrow 186 = \frac{? \times 124}{10} \Rightarrow ? \times 124 = 1860 \Rightarrow ? = \frac{1860}{124} = 15$

- 66-70. (i) $P @ Q \Rightarrow P \leq Q : P > Q$
 (ii) $P \% Q \Rightarrow P \geq : P > Q$
 (iii) $P \odot Q \Rightarrow P > Q : P \leq Q$
 (iv) $P \$ Q \Rightarrow P < Q : P \geq Q$
 (v) $P \# Q \Rightarrow P > Q ; P < Q : P = Q$

@ \Rightarrow >	% \Rightarrow <	⊙ \Rightarrow ≤
\$ \Rightarrow ≥	# \Rightarrow =	

66. (4) $H @ K \Rightarrow H > K$
 $K \% M \Rightarrow K < M$
 $M \odot D \Rightarrow M \leq D$
 Therefore,
 $H > K < M \leq D$
 Conclusions
 I. $H @ D \Rightarrow H > D$: Not true
 II. $K \% D \Rightarrow K < D$: True

67. (3) $R \% H \Rightarrow R < H$
 $H \odot T \Rightarrow H \leq T$
 $T @ K \Rightarrow T > K$
 Therefore,
 $R < H \leq T > K$
 Conclusions
 I. $T \odot R \Rightarrow T \leq R$: Not True
 II. $K \% H \Rightarrow K < H$: Not True

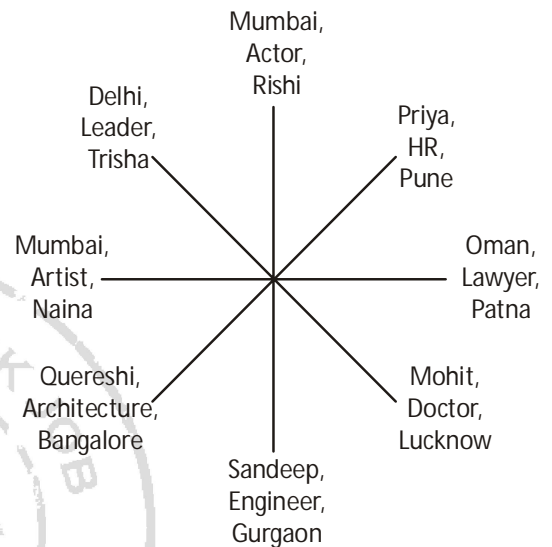
68. (1) $R \odot D \Rightarrow R \leq D$
 $D \$ M \Rightarrow D \geq M$
 $M \# J \Rightarrow M = J$
 Therefore,
 $R \leq D \geq M = J$
 Conclusions
 I. $J \# D \Rightarrow J = D$: Not True
 II. $J \% D \Rightarrow J < D$: Not True
 J is either smaller than or equal to D. Therefore, either conclusion I or conclusion II is true.

69. (3) $W \# D \Rightarrow W = D$
 $D \odot B \Rightarrow D \leq B$
 $B \$ H \Rightarrow B \geq H$
 Therefore,
 $W = D \leq B \geq H$
 Conclusions
 I. $H \# D \Rightarrow H = D$: Not True
 II. $B \% W \Rightarrow B < W$: Not True

70. (2) $F \$ N \Rightarrow F \geq N$
 $N @ D \Rightarrow N > D$
 $D \% B \Rightarrow D < B$
 Therefore,
 $F \geq N > D < B$
 Conclusions
 I. $F @ D \Rightarrow F > D$: True
 II. $B @ N \Rightarrow B > N$: Not True

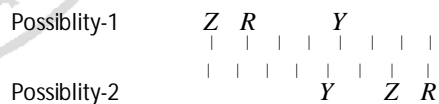
71. (2) Meaningful Word \Rightarrow PAIR ,

72. (5) It is clear that statement (A) is the cause and statement (B) is its effect. Due to increase in the number of electric cars, the demand for oil falls substantially and hence the prices of oil have been decreased in the Country
 73. (1) Grasshoppers destroy crops on a large scale. So, it is necessary to protect crops from grasshoppers. Obviously; Option (1) seems to be appropriate.
 74. (2) From the given information it is clear that the school would face a crunch in terms of availability of qualified teachers in the years to come.
 75. (3) It is mentioned that salaries of maids have gone up only 50 times while costs have gone up 100 times
 76-82.



76. (2) Quereshi
 77. (1) Osman
 78. (3) HR
 79. (4) 5
 80. (2) Doctor
 81. (4) Leader-Artist
 82. (5) Priya – Rishi – Trisha
 83. (2)
 84. (3)
 85. (5)

86. (3) Statement-1 :



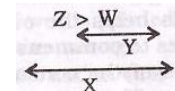
Possibility-2
 So, we can't say the Exact position of 'R'.

Statement-2 :

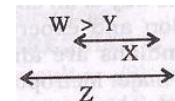


We can't say the exact position of R.

87. (2) From statement I

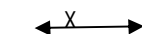


From statement II



From both the statements

$Z > W > Y$



Thus, Z has the most number of cookies.

88. (1) From statement I

my dear family → 6 2 4

my small family → 2 5 6

The number '4' stands for 'dear'.

From statement II

my dear family → 6 2 4

dear family friend → 6 4 7

The code for 'dear' is '6' or '4'.

89. (3) From statement I

Q is the mother of T.

M is the child of Q.

M and P are married couple.

Therefore, P is daughter-in-law or son-in-law of Q.

From statement II

Q is brother of M.

The gender of P is not known.

P is brother-in-law or sister-in-law of Q.

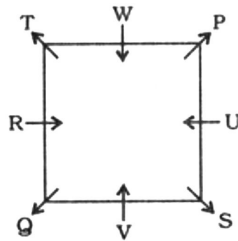
90. (3) From statement I

2x students attended the cultural fair.

From statement II

x + 25 female students attended the cultural fair.

91-95.



91. (4) P is at the corner and he is facing outside. R is third to the left of P.

92. (2) V is sitting exactly between Q and S.

93. (3) Except R, all others are at the corners of the table.

94. (1) S is facing outside. R is sitting third to the right of S.

95. (5) Four persons - R, T, W and P - are sitting between Q and U, if we move clockwise from Q.

96. (4) The police need this information (on the card), especially when the accident is fatal.

97. (2) This move would benefit the country. So the bill must be passed after a discussion in the parliament

98. (3) If the share goods is negligible, a slump in demand in international market would hardly make an impact. Thus, this contradicts the given statement.

99. (5) None of these

100. (4) It is given that rice cultivated in Punjab of premium quality is what the government is trying to export. This implies quality gets preference in export.