

SBI PO Preliminary Grand Test –SPP-180313

HINTS & SOLUTIONS

ANSWER KEY

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

HINTS & SOLUTIONS

1. (5) Hone (Verb) = to develop and improve something, especially a skill, over a period of time; sharpen.
Look at the sentences:
It was a finely honed piece of writing.
She honed her debating skills at college.
2. (2) 3. (1)
4. (1) 5. (2)
6. (5) Break into = to be successful when you get involved in something
Tricky = difficult to deal with
Look at the sentence:
The company is having difficulty breaking into new markets.
7. (1)
8. (5) Purely (Adverb) = entirely; only, completely.
Partly (Adverb) = to some extent; not completely.
Look at the sentences:
The charity is run on a purely voluntary basis.
He was only partly responsible for the accident.
9. (5) Honour (Verb) = to do what you have agreed or promised to do.
Settle (Verb) = to pay the money that you owe.
Look at the sentences:

- I have every intention of honouring our contract.
The insurance company is refusing to settle her claim.
10. (5) Weighty (Adjective) = important and serious ; heavy.
Slight (Adjective) = very small.
11. (5) Pertain = to be connected with something
Edge off = to make something less strong; less bad.
12. (4) Deploy (Verb) = to move soldiers into a position; to use something effectively.
13. (4) Take note of = to pay attention to something and be sure to remember it
14. (2) Spark concern = to start or develop concern.
15. (1) Initiate = to start
16. (4) 17. (4) 18. (5)
19. (1) 20. (3)
21. (5) No error
22. (3) Here, Adjective (gerund) i.e. and law abiding sectors ... should be sued.
23. (4) Here, Subject (its stated aim) is singular. Hence, curbing inflation has not been achieved should be used.
24. (3) Here general Proposition is evident. Hence present simple should be used here.
25. (4) Here, for/in India's premier educational Institutes should be used.
26. (4) relationship 27. (3) Rising
28. (4) changes 29. (4) pace
30. (1) forecast
31. (2) Series is $+11^2, +10^2, +9^2, +8^2, +7^2$
32. (1) Series is $+880, +440, +220, +110, +55,$
33. (3) Series is $+3^3, +4^3, +5^3, +6^3, +7^3, \dots$
34. (4) Series is $13 + 23 = 36$
 $36 + 34 = 70$
 $70 + 47 = 117$
 $117 + 62 = 179$
 $179 + 79 = 258$
- Difference of $23 + 11 = 34, 34 + 13 = 47,$
 $47 + 15 = 62, 62 + 17 = 79$
35. (5) Series is $+551, +1102, +1653, +2204, +2755,$
- 36-40. Total number of girls = $2800 \times \frac{4}{7} = 1600$
Total number of boys = $2800 - 1600 = 1200$
Number of boys in painting = $1200 \times \frac{20}{100} = 240$
Number of girls in cooking = $\frac{1}{4} \times 1600 = 400$
Number of boys in cooking = $700 - 400 = 300$
Number of boys in singing = $\frac{2}{5} \times 1200 = 480$
Number of boys in dancing = $1200 - 240 - 300 - 480 = 180$
Number of girls in dancing = $180 \times \frac{5}{4} = 225$
Number of girls in singing = $2 \times 480 = 960$
Number of girls in painting = $1600 - 400 - 225 - 960 = 15$
36. (5) Required ratio = $240 : 480 = 1 : 2$

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37. (1) Required per cent = $\frac{400}{2800} \times 100 = \frac{100}{7} = 14$
38. (3) Required per cent = $\frac{300}{2800} \times 100 = 10.71$
39. (4) Number of children in dancing classes = $180 + 225 = 405$
40. (2) Number of girls taking painting classes = 15
41. (2) The no. of adult males in city B
 $= \frac{131857}{11} \times 7 = 83909$
 The no. of adult males in city C
 $= \frac{116536}{8} \times 5 = 72835$
 The difference between the total no. of adult males of city B and C = $83909 - 72835 = 11074$
42. (1) The no. of adult males in city A
 $= 105623 \times \frac{5}{7} = 75445$
 The no. of adult females in city C
 $= 100249 \times \frac{11}{17} = 64867$
 Total no. of adults in city A
 $= 75445 + 64867 = 140312$
43. (4) The no. of minor males in city F
 $= 180396 \times \frac{5}{18} = 50110$
 The no. of minor females in city F
 $= 183296 \times \frac{9}{16} = 103104$
 The required percentage
 $= \frac{50110}{103104} \times 100 = 48.6\%$
44. (5) The no. of adult males in city D
 $= 137202 \times \frac{8}{13} = 84432$
 The no. of adult females in city E
 $= 161896 \times \frac{9}{14} = 104076$
 The difference between total no. of males in city D and adult females of city E
 $= 104076 - 84432 = 19644$
45. (3) The no. of minor females in city A
 $= 100249 \times \frac{6}{17} = 35382$
 The no. of minor females in city B
 $= 115110 \times \frac{4}{15} = 30696$
 The required percentage
 $= \frac{35382 - 30696}{30696} = 15.2\% \approx 15\%$
46. (4) Required percentage increase = $\frac{9-8}{8} \times 100 = 12.5$
47. (1) Number of students enrolled in district-B over all the years = 33 thousand
 Required difference = $(33 - 21)$ thousand = 12000 thousand
48. (2) Required average = $\frac{34000}{6} = 5666$
49. (3) Total number of students:
 Year 2005 \Rightarrow 14 thousand
 Year 2006 \Rightarrow 17 thousand
 Year 2007 \Rightarrow 22 thousand
 Year 2008 \Rightarrow 21 thousand
 Year 2009 \Rightarrow 16 thousand
 Year 2010 \Rightarrow 18 thousand
50. (1) Required percentage = $\frac{12}{8} \times 100 = 150$
51. (1) Amount = $P \left(1 + \frac{R}{100} \right)^T$
 $\Rightarrow 5800 + 594.5$
 $5800 \left(1 + \frac{R}{100} \right)^2$
 $\Rightarrow \frac{63945}{58000} = \left(1 + \frac{R}{100} \right)^2$
 $\Rightarrow \frac{441}{400} = \left(1 + \frac{R}{100} \right)^2 \Rightarrow \left(\frac{21}{20} \right)^2 = \left(1 + \frac{R}{100} \right)^2$
 $\Rightarrow 1 + \frac{R}{100} = \frac{21}{20} \Rightarrow R = \frac{1}{20} \times 100 = 55$ per annum
52. (3) Quicker approach
 Let the original fraction be $\frac{x}{y}$
 $\therefore \frac{x \times 250}{y \times 450} = \frac{25}{51} \Rightarrow \frac{x}{y} = \frac{25}{51} \times \frac{450}{250} = \frac{15}{17}$
53. (4) The word BANKING consists of 7 letters in which 'N' comes twice.
 \therefore Number of arrangements = $\frac{7!}{2!}$
 $= \frac{7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1}{2 \times 1} = 2520$
54. (2) Quicker approach
 Gain per cent
 $= \frac{7 \times 6 \times 348000 - 250000}{250000} \times 100 = 39.2\%$
55. (5) Quicker approach
 If the number of parrots in the forest be x, then number of tigers = $858 - x$
 $\therefore x \times 2 + (858 - x) \times 4 = 1746$
 $\Rightarrow 2x = 3432 - 1746 = 1686$
 $\Rightarrow x = \frac{1686}{2} = 843$
56. (4) I. $3x^2 + 14x + 15 = 0$
 $\Rightarrow 3x^2 + 9x + 5x + 15 = 0$
 $\Rightarrow 3x(x + 3) + 5(x + 3) = 0$
 $\Rightarrow (x + 3)(3x + 5) = 0$
 $\Rightarrow x = -3$ or, $\frac{-5}{3}$
 II. $6y^2 + 17y + 12 = 0$
 $\Rightarrow 6y^2 + 9y + 8y + 12 = 0$

$$\Rightarrow 3y(2y + 3) + 4(2y + 3) = 0$$

$$\Rightarrow (2y + 3)(3y + 4) = 0$$

$$\Rightarrow y = \frac{-3}{2} \text{ or } -\frac{4}{3}$$

Clearly, $x < y$

57. (1) I. $3x^2 - 17x + 24 = 0$
 $\Rightarrow 3x^2 - 9x - 8x + 24 = 0$
 $\Rightarrow 3x(x - 3) - 8(x - 3) = 0$
 $\Rightarrow (3x - 8)(x - 3) = 0$
 $\Rightarrow x = \frac{8}{3} \text{ or } 3$

II. $4y^2 - 15y + 14 = 0$
 $\Rightarrow 4y^2 - 8y - 7y + 14 = 0$
 $\Rightarrow 4y(y - 2) - 7(y - 2) = 0$
 $\Rightarrow (4y - 7)(y - 2) = 0$
 $\Rightarrow y = \frac{7}{4} \text{ or } 2$

Clearly, $x > y$

58. (5) I. $2x^2 + 11x + 14 = 0$
 $\Rightarrow 2x^2 + 4x + 7x + 14 = 0$
 $\Rightarrow 2x(x + 2) + 7(x + 2) = 0$
 $\Rightarrow (x + 2)(2x + 7) = 0$
 $\Rightarrow x = -2 \text{ or } -\frac{7}{2}$

II. $2y^2 + 17y + 33 = 0$
 $\Rightarrow 2y^2 + 6y + 11y + 33 = 0$
 $\Rightarrow 2y(y + 3) + 11(y + 3) = 0$
 $\Rightarrow (2y + 11)(y + 3) = 0$
 $\Rightarrow y = \frac{-11}{2} \text{ or } -3$

Clearly relationship cannot be established

59. (2) I. $3x^2 + 13x + 12 = 0$
 $\Rightarrow 3x^2 + 9x + 4x + 12 = 0$
 $\Rightarrow 3x(x + 3) + 4(x + 3) = 0$
 $\Rightarrow (3x + 4)(x + 3) = 0$
 $\Rightarrow x = \frac{-4}{3} \text{ or } -3$

II. $2y^2 + 15y + 27 = 0$
 $\Rightarrow 2y^2 + 6y + 9y + 27 = 0$
 $\Rightarrow 2y(y + 3) + 9(y + 3) = 0$
 $\Rightarrow (y + 3)(2y + 9) = 0$
 $\Rightarrow y = -3 \text{ or } -\frac{9}{2}$

Clearly, $x \geq y$

60. (2) I. $x^2 - 22x + 121 = 0$
 $\Rightarrow (x - 11)^2 = 0$
 $\Rightarrow x - 11 = 0$
 $\Rightarrow x = 11$

II. $y^2 = 121$
 $\Rightarrow y = \sqrt{121} = \pm 11$

Clearly, $x \geq y$

61. (3) $? = \frac{394 \times 57}{100} - \frac{996 \times 2.5}{100}$

$$\approx \frac{400 \times 57}{100} - \frac{1000 \times 2.5}{100}$$

$$\approx 228 - 25$$

$$\approx 203$$

$\therefore \approx$ Required answer = 200

62. (4) $? = 97 \times 10 + 1 = 971$

\therefore Required answer = 940

63. (4) $? \approx \frac{3}{5} \times \frac{1125}{1228} \times 7 = 4$

64. (2) $? \approx \sqrt{\frac{339 \times 25}{30}} \approx 15$

65. (5) $? = \frac{638 + 9709 - 216}{26} = 390$

66. (4) 67. (1) 68. (2)

69. (2) Arguments I and III are strong.

70. (5) None of the arguments is strong.

71. (2) Argument I is based on an example. We know that citing example is a bad argumentation. Only Argument II seems to be strong.

72. (5) All the three courses of action are suitable for pursuing. The Courses of action mentioned here are appropriate to tackle the problem.

73. (3) Course of action II seems to be suitable for pursuing. The government should make effort to point out the cause of price rise instead of setting up an expert committee to study the trend of prices. Course of action III negates the importance of essential commodities.

74. (4) All the three courses of action are suitable for pursuing.

75. (4) Large number of branches of many government owned banks in the rural areas are making huge losses every year due to lack of adequate business activities.

76-80.

Floor Number	Person	Cartoon Character
7	O	Flinstone
6	S	Tweety
5	Q	Chipmunk
4	N	Popeye
3	M	Scooby Doo
2	R	Simpson
1	P	Jetson

76. (3) Four persons — Q, N, M and R — live between the floors of S and P.

77. (5) All the statements are true.

78. (1) N lives on the floor immediately above the floor on which M lives.

79. (4) Q lives exactly between the floor

80. (2) P likes cartoon character Jetson

81. (3) $A @ F \Rightarrow$ A is wife of F.

$F\$M \Rightarrow$ F is son of M.

$M \% J, \Rightarrow$ M is mother of J.

$J + T \Rightarrow$ J is the sister of T.

F is the husband of A. J is the sister of F. So, J is the sister-in-law of A.

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82. (4) $J \% B \Rightarrow J$ is the mother of B
 $B \$ K \Rightarrow B$ is the son of K .
 $K \$ T \Rightarrow K$ is the son of T .
 Therefore, J is daughter-in-law of T .

83-85. (i) $P \# Q \Rightarrow P \geq Q$
 (ii) $P \% Q \Rightarrow P \leq Q$
 (iii) $P @ Q \Rightarrow P > Q$
 (iv) $P \$ Q \Rightarrow P < Q$
 (v) $P \odot Q \Rightarrow P = Q$

83. (3) $H \odot W \Rightarrow H = W$
 $W \% R \Rightarrow W \leq R$
 $R @ F \Rightarrow R > F$
 Therefore, $H = W \leq R > F$
 Conclusions
 I. $R \odot H \Rightarrow R = H$: Not True.
 II. $R @ H \Rightarrow R > H$: Not True
 R is either greater than or equal to H .

84. (1) $M \$ T \Rightarrow M < T$
 $T @ K \Rightarrow T > K$
 $K \odot D \Rightarrow K = D$
 Therefore, $M < T > K = D$
 Conclusions

I. $D \$ T \Rightarrow D < T$: True
 II. $K \$ M \Rightarrow K < M$: Not True
 85. (2) $R \% N \Rightarrow R \leq N$
 $N \# F \Rightarrow N \geq F$
 $F @ B \Rightarrow F > B$
 Therefore, $R \leq N \geq F > B$
 Conclusions
 I. $F \odot R \Rightarrow F = R$: Not True
 II. $B \$ N \Rightarrow B < N$: True

86-90. After careful analysis of the Input and various steps of rearrangement it is evident that in each step one number or word is rearranged. These two steps are continued alternately till all the words get rearranged in alphabetical order and all the numbers get rearranged in ascending order.

86. (3) Step II: bend 15 will care 46 53 29 then
 Step III: bend 15 care will 46 53 29 then
 Step IV: bend 15 care 29 will 46 53 then
 Step V: bend 15 care 29 then will 46 53
 Step VI: bend 15 care 29 then 46 will 53
 87. (5) Input: land 62 clear over 41 37 again 56
 Step I: again land 62 clear over 41 37 56
 Step II: again 37 land 62 clear over 41 56
 Step III: again 37 clear land 62 over 41 56
 Step IV: again 37 clear 41 land 62 over 56
 Step V: again 37 clear 41 land 56 62 over
 Step VI: again 37 clear 41 land 56 over 62
 Step V is the last but one step.

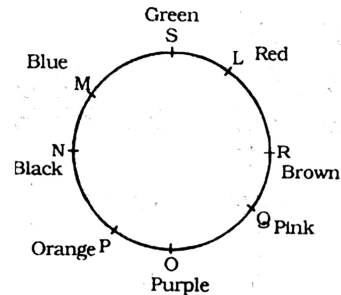
88. (4) Step II: desk 12 year victor 86 71 store 65
 Step III: desk 12 store year victor 86 71 65
 Step IV: desk 12 store 65 year victor 86 71
 Step V: desk 12 store 65 victor year 86 71
 Step VI: desk 12 store 65 victor 71 year 86

89. (1) Input: earn 39 23 48 station 19 begin day
 Step I: begin earn 39 23 48 station 19 day

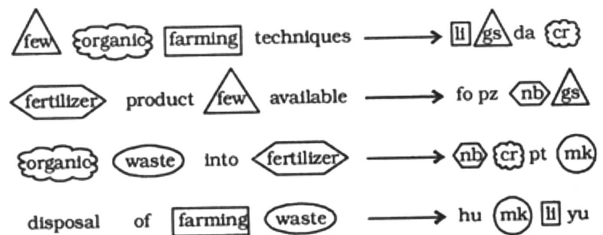
Step II: begin 19 earn 39 23 48 station day
 Step III: begin 19 day earn 39 23 48 station
 Step IV: begin 19 day 23 earn 39 48 station
 Step V: begin 19 day 23 earn 39 station 48

90. (4) It is not possible to determine the Input from any given step.

91-95.



91. (2) P likes Orange colour. Q is second to the right of P .
 92. (3) S likes Green colour.
 93. (1) L likes Red colour. R is sitting exactly between L and Q .
 94. (4) Q likes Pink colour.
 95. (1) N and S are immediate neighbour of M .
 96-100.



96. (5) few \Rightarrow gs
 waste \Rightarrow mk
 97. (2) organic \Rightarrow cr
 98. (3) yu \Rightarrow disposal/of
 99. (4) waste \Rightarrow mk
 techniques \Rightarrow da
 The code for 'Management' may be 'ax'.
 Therefore,
 farming \Rightarrow li
 fertilizer \Rightarrow nb
 management \Rightarrow ax
 100. (1) available \Rightarrow fo/pz