## Grand Test – SPP 180531



# SBI PO Preliminary Grand Test –SPP-180531

## **HINTS & SOLUTIONS**

- 18 C

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

### **HINTS & SOLUTIONS**

1. (3) Passing (Adjective) = momentary: brief: lasting for a short time. **Permanent (Adjective)** = lasting for a long time. Look at the sentences: He makes only a passing reference to the theory in his I book. The accident has not done any permanent damage. 2.(1) 3. (2) Spurt (Noun) = a sudden increase in speed, effort activity or emotion for a short period of time. Drop (Noun) = decrease: reduction. Look at the sentence : Babies get very hungry during growth spurts. During recession many companies faced sharp drop in profits 4. (5) Fuel (Verb) = to increase something: to encourage; to

make something stronger; stimulate. Look at the sentence : Higher salaries helped to fuel inflation.

- 5. (5)
   6. (5)

   7. (4)
   8. (4)
- 10. (4) **Concede (Verb)** = to admit that something is true.

	Look at the sentence :				
	He was forced to concede that there might be				
	difficulties.				
11. (3)	12. (2)				
13. (4)	<b>Range</b> = a variety of thing of a particular type.				
	<b>Alternative</b> = a thing that you can choose to do: that can				
	be used instead of something.				
14. (1)	Flack = severe criticism				
. ,	<b>Bit</b> = part of something				
15. (3)	Appalled = feeling disgust at something unpleasant				
16.(1)	Here, Rural and Urban water problems would have as-				
	sued critical (Adjective) should be used. It is somewhat				
	conditional.				
_	There was possibility, that did not happen.				
17. (2)	Here, infinitive i.e., faculty to believeshould be used.				
	Gerund shows cause.				
18. (3)	Here, superlative i.e., the bestshould be used.				
19. (3)	Here, active i.e., she used should be used. Here, doer is				
	active:				
20. (2)	Here, an article should be used. Hence, us a great gift of				
	should be used.				
21.(3)	22.(1)				
23.(4)	24.(5) 25.(2)				
26. (1)	_determine 27. (3) generate				
	variety 29. (3) led				
30. (4)	response				
31. (3)	Series is +23, +(23×2), +(23×3), +(23×4), +(23×5) and so				
	on.				
22 (5)	Next no 739 + 23 × 6 = 927				
32. (5)	Series is $\times 1 + 2$ , $\times 2 + 3$ , $\times 3 + 4$ and so on.				
22 (4)	Next no. is 3291 × 6 + 7 = 19753.				
33. (4)	Series is ×1, ×(1+4), ×(5+4) = ×9, ×(9 + 4) = ×13 and so on. Answer = 129285 × 21 = 2714985.				
24 (2)					
34. (2)	Seiries is $1^4$ , $2^4$ , $3^4$ , $4^4$ , and so on.				
35. (1)	Next number is 2401. Series is ×2 + 6, ×2 + 6, ×2 + 6, ×2 + 6.				
-35.(1)	Next number is 410.				
36.(5)	Let present age of Prem = x years and that of Anand = y				
50.(5)					
	years According to the statement				
	-				
	A. $\frac{x-5}{y-5} = \frac{3}{4} \Rightarrow 4x - 20 = 3y - 15 \Rightarrow 4x - 3y = 5$				
	y-5 4				
	x + 5 5 c 20 5 25 c 5				
	B. $\frac{x+5}{y+5} = \frac{5}{6} \Rightarrow 6x + 30 = 5y + 25 \Rightarrow 6x - 5y = -5$				
	y + 5 0				
	C. $\frac{x}{y} = \frac{2}{3} \Rightarrow 3x = 2y \Rightarrow y = \frac{3}{2}x$				
	$C: \frac{y^2}{y^3} \xrightarrow{\rightarrow} 5x^2 \xrightarrow{\rightarrow} y^2 \xrightarrow{\rightarrow} 2^x$				
	Hence we can easily find the difference between the				
	ages of Prem and Anand by considering any two of the				
	three equations.				
37. (4)	All together are necessary				
38.(2)	As both the cows have neither been bought for Rs 2450				
	each nor have been bought at equal cost for Rs 2450				
	together (ie for Rs 1225 each), so even after combining				
	the three statements we cannot find out his loss or gain				
	percent.				



#### Grand Test – SPP 180531 $\Rightarrow$ (x + 3) (2x + 5) = 0 $A \Longrightarrow P \left( 1 + \frac{r}{100} \right)^2 = 8988.80$ 39. (4) $\Rightarrow$ x = -3 or $-\frac{5}{2}$ $B \Longrightarrow P + \frac{2rp}{100} = 8960$ II. 5 $y^2$ + 22y + 24 = 0 $C \Longrightarrow P = 8000$ $\Rightarrow$ 5 y<sup>2</sup> + 10y + 12y + 24 = 0 By solving any two, the result can be found. $\Rightarrow$ 5y(y + 2) + 12 (y + 2) = 0 40. (4) Let the length and breadth of a rectangle be x and y ⇒ (y + 2) (5y + 12) = 0 respectively. $\Rightarrow$ y = -2 or $-\frac{12}{12}$ $A \Rightarrow A(r): A(c) = 6:11$ $B \Rightarrow A(c) = 132$ Clearly, x < y Therefore, area of rectangle 52.(2) $1.25 X^{2} + 25x + 4 = 0$ $=\frac{6}{11} \times 132 = 72 \text{ m}^2$ ...(1) $\Rightarrow$ 25 x<sup>2</sup> + 20x + 5x + 4 = 0 $\implies$ 5x (5x + 4) + 1 (5x + 4) = 0 $\Rightarrow$ (5x + 4) (5x + 1) = 0 Combining statement (c) and (1) $= x \times \frac{x}{2} = 72 \Longrightarrow x^2 = 144 \Longrightarrow x = \text{length} = 12$ $\Rightarrow$ x = $-\frac{4}{5}$ or $-\frac{1}{5}$ II. 5 $y^2$ + 11y + 6 = 0 Breadth = 6 Unsold units of the company in year 2008 41. (5) $\Rightarrow$ 5 y<sup>2</sup> + 5y + 6y + 6 = 0 = (25 - 17.5) = 7.5 lacs $\Rightarrow$ 5y(y + 1) + 6 (y + 1) = 0 Unsold unit of company in year 2011 ⇒ (y + 1) (5y + 6) = 0 =(30-20)=10 lacs Hence required difference = (10 - 7.5) = 2.5 lacs ⇒y = - 1 or -Required avg. = 1/6 x (35 + 37.5 + 25 + 40 + 32.5 + 30) lacs 42. (2) = 1/6 x200 = 33 lacs Clearly, x > y43.(2) Required ratio = 37.5 : 25 = 3:2 $I. 2 X^{2} + x - 1 = 0$ 53. (5) Required percentage = $[(20/27.5) \times 100] = 73\%$ 44. (3) $\Rightarrow$ 2 X<sup>2</sup> + 2x - x - 1 = 0 Required number = (37.5 - 30)+ (32.5 - 25) lacs 45.(2) = (7.5 + 7.5) lacs = 15 lacs $\Rightarrow$ 2x (x + 1) - 1 (x + 1) = 0 Both of the examinations had almost the same difficulty 46. (3) $\Rightarrow$ (2x - 1) (x + 1) = 0 level. ⇒x = 1 - or -1 47. (4) Total no. of students in class IX = (28+23+17+27+14+12+8+13+6+17+9+15+64+55+46+76) II. $2y^2 + y - 6 = 0$ = 430Pass students in at least one of the two examinations for 48. (4) $\Rightarrow$ 2 y<sup>2</sup> + 4y - 3y - 6 = 0 different sections are $\Rightarrow$ 2y(y + 2) - 3 (y + 2) = 0 For A : $\frac{(14+6+64)}{(28+14+6+64)} \times 100 = 75\%$ $\Rightarrow$ (2y - 3) (y + 2) = 0 = 3 (12 + 17 + 55)For B: $\frac{(12+17+55)}{(23+12+17+55)} \times 100 = 78.5\%$ $I. X^2 - 10x + 21 = 0$ 54. (3) For C : $\frac{(8+9+46)}{(17+8+9+46)} \times 100 = 78.75\%$ $\Rightarrow$ 7x - 3x + 21 = 0 ⇒ x (x - 7) - 3 (x - 7) = 0 ⇒ (x - 3) (x - 7) = 0 For D : $\frac{(13+15+76)}{(27+13+15+76)} \times 100 = 79.39\%$ $\Rightarrow$ x = 3 or 7 II. $y^2 - 16y + 63 = 0$ Section A has the maximum success rate in annual 49. (1) examination. $\Rightarrow$ y<sup>2</sup> - 9y -7y + 63 = 0 $\frac{14+64}{28+14+6+64} \times 100 = 69.64, \text{, B} = 62.61, \text{ C} =$ For A =⇒y (y - 9) - 7 (y - 9) = 0 ⇒ (y - 7) (y - 9) = 0 67.5, D = 67.9. So answer is (1). $\Rightarrow$ y = 7 or 9 Section D has the minimum failure rate in help yearly 50. (4) Clearly, $x \leq y$ examination. $I.6 X^{2} + 17x + 12 = 0$ 55. (5) 28 + 14A = $\frac{20 + 14}{28 + 14 + 6 + 64}$ = 37.5; B = 33.7, C = 31.25, D = $\Rightarrow$ 6 x<sup>2</sup> + 9x + 8x + 12 = 0 30.53. So answer is (4). $\Rightarrow$ 3x(2x + 3) + 4(2x + 3) = 0 $\Rightarrow$ (2x + 3) (3x + 4) = 0 $I. 2 X^{2} + 11x + 15 = 0$ 51. (1) $\Rightarrow$ x = $-\frac{3}{2}$ or $-\frac{4}{3}$ $\Rightarrow$ 2 X<sup>2</sup> + 6x + 5x + 15 = 0 $\Rightarrow$ 2x (x + 3) + 5 (x + 3) = 0

Grand Test – SPP 180531				
	II. $6 y^2 + 21y + 9 = 0$ 66. (	3)		
	$\Rightarrow 2 y^2 + 7y + 3 = 0$			
	$\Rightarrow 2y^2 + 6y + y + 3 = 0$	Cars Wheels Pots Tyres		
	$\Rightarrow 2y(y+3)+1(y+3)=0$			
	$\Rightarrow (2y+1)(y+3) = 0$	2)		
	$\Rightarrow y = -\frac{1}{2} \text{ or } -3 $ 67. (	2)		
56. (2)	Area of the circle = $\frac{22}{7} \times (14)^2 = 616 \text{ cm}^2$	Frames Idols Curtains		
	Area of the rectangle = $1166 - 616 = 550 \text{ cm}^2$	Pictures		
	Breadth of the rectangle $=\frac{550}{25}=22$ cm			
	68.0	4)		
F7 (1)	So, required sum = $2 \times \frac{22}{7} \times 14 + 2(25 + 22) = 182$ cm	Ices Rings — Paint		
57. (1)	Let the length of train A and train B be x and 2x, then x			
	Speed of train A = $\frac{x}{25}$	Gold		
	Speed of train B = $\frac{2x}{75}$ B69.(	4)		
	/5	Shoes		
	Required ratio $=\frac{x}{25}:\frac{2x}{75}=3:2$	$\left(\begin{array}{c} Candle \end{array}\right) \times \left(\begin{array}{c} Bell \end{array}\right) $		
58. (2)	Let the number of days he was absent be x days. 180 $(40 - x) - 20 x = 5200$	Tables		
	7200 - 180x - 20x = 5200 $70.(7200 - 180x - 20x = 5200)$			
	7200 - 200x = 5200 x = 2000/20 = 10 days			
59. (5)	Efficiency Days	Papers () Black		
	4 A 16 5 B 64/5 LCM 64	Pens		
	5 B 64/5 LCM 64 2 C 32	Toys		
	$(A + B + C_work together for 4 days = 4 \times (4 + 5 + 2) = 44$ (71-	-75):		
	$= 4 \times (4 + 5 + 2) = 44$ (71 C work alone, last 3 days = 3 × 2 = 6	After careful analysis of the given input and various steps		
	Remaining work done by (B + C) = (64 – 50) / 7 = 14/7 = 2 days	of rearrangement it is evident that in each step two elements (one word and one number) are rearranged. In		
	= $(64 - 50) / 7 = 14/7 = 2$ days Total days = $4 + 3 + 2 = 9$ days. Let A complete the work in x days and	the first step the word which contains maximum number		
60. (3)	Let A complete the work in x days and	of letters is placed at the extreme left position while the lowest number is placed at the extreme right position		
	B complete the work in y days. So, By 1 <sup>st</sup> case,	after reversing its digits. In the second step the word		
	$\frac{2}{2} + \frac{9}{2} = 1$ (1)	which contains the second highest number of letters is		
	х у	placed at the extreme left position and the second lowest number is placed at the extreme right position		
	And By 2 <sup>nd</sup> case,	after reversing its digits. The same procedure is		
	$\frac{3}{x} + \frac{6}{y} = 1$ (2)	continued till all the words and numbers get rearranged. Input: micro 63 make 19 morales 72 25 my map 48		
	From Eq. (1) and (2), y = 15 days.	margin 56		
61.(1)	$? = 6575 \div 18 \times 42 \div 7$ 6576 42	Step I: morales micro 63 make 72 25 my map 48 margin 56 91		
	$=\frac{6576}{18} \times \frac{42}{7}$	Step II: margin morales micro 63 make 72 my map 48 56		
	= 365 x 6 = 2190	91 52 <b>Step III</b> : micro margin morales 63 make 72 my map 56 91		
62. (2)	? = 12 x 15 - 9 x 7 = 180 - 63 = 117	52 84		
63. (3)	? = 13 x 22 x 18 = 5148	<b>Step IV</b> : make micro margin morales 63 72 my map 91 52 84 65		
64. (4)	? = 17 + 27 + 37 - 13- 9 = 81 -22 = 59	Step V: map make micro margin morales 72 my 91 52 84		
65. (1)	$? = \frac{18 \times 600}{100} + \frac{28 \times 450}{100}$	65 36 Stop VII: my man make micro margin morales 01 52 84		
03. (1)		Step VI: my map make micro margin morales 91 52 84 65 36 27		
	= 108 + 126 = 234			

