

SBI PO Preliminary Grand Test –SPP-171206

HINTS & SOLUTIONS

ANSWER KEY

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

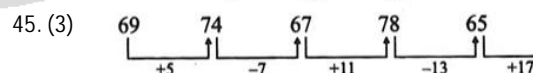
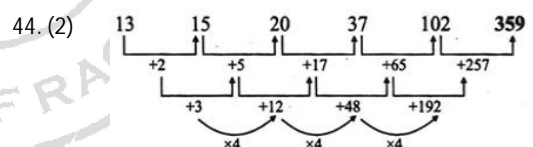
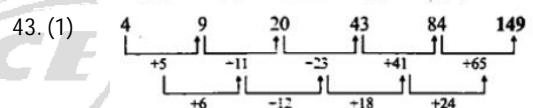
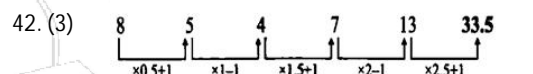
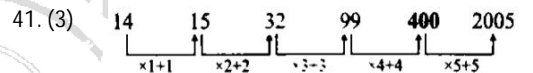
HINTS & SOLUTIONS

1. (4) Circumvent means deceive; outwit.
2. (1) Interpretation means an explanation or way of explaining.
3. (2) Perception means awareness of something through the senses.
4. (3) Cloistered means kept away from the outside world; sheltered; secluded.
5. (5) Migrating means move to a new area or country in order to find work or better living conditions.
- 6-10. The correct sequence to form a meaningful paragraph is BEAFCD.
6. (5)
7. (1)
8. (1)
9. (2)
10. (1)
11. (2) "confrontation" is the correct word replacement as it means a hostile or argumentative situation or meeting between opposing parties.
12. (1) "barely" is the correct word replacement as it means only just; almost not.
13. (4) "back off" is the correct word replacement as it means draw back from action or confrontation.
14. (5) "encampments" is the correct word in context of its usage in the sentence. Hence it doesn't require any correction.
15. (3) "tempted" is the correct word replacement as it means have an urge or inclination to do something.
16. (4) "punitive" is the correct word replacement as it means inflicting or intended as punishment.
17. (2) "bitter" is the correct word replacement as it means feeling or showing anger, hurt, or resentment because of bad experiences or a sense of unjust treatment.
18. (1) "brewing" is the correct word replacement as it means (of an unwelcome event or situation) begin to develop.
19. (3) "humiliating" is the correct word replacement as it means make (someone) feel ashamed and foolish by injuring their dignity and pride.
20. (5) "bellicose" is the correct word in context of its usage in the sentence as it means demonstrating aggression and willingness to fight.
21. (5) Read the first paragraph carefully, it can be easily inferred from there that in today's world, Information and Communication Technology has completely changed the lives of people around the world. All three statements can be easily verified from the first paragraph. Hence (e) is the correct choice.
22. (4) Refer the second paragraph, "The usual concerns that many people have about this domination of "smart" machines all around us relate to privacy, monitoring and surveillance, and, of course, the ever-present possibility of cyber fraud." Hence both the statements (II) and (III) are correct in context of the passage.
23. (5) Refer the last sentence of the second paragraph, "...most people believe that such temporary collapses can be speedily rectified and dealt with, and that most computer systems have enough backup to resolve the ensuing problems quickly and relatively smoothly, without major disruption." and the first sentence of the third paragraph, "...now it seems that such a belief in the fundamental resilience (if such a word can be used) and reliability of systems based in cyberspace are not justified and could even be touchingly naive." These two statements have nicely been justified with the example of power failure of British Airways. Hence both these statements show that the author is skeptical about the reliability and truth related to such issues.
24. (2) Read the fourth paragraph carefully, it is clearly mentioned there that the reason of power failure for the breakdown of computer system raises more questions related to its existing back up plans, security, privacy and problem solving measures. Hence in context of the passage, both the statements (I) and (III) are correct.
25. (1) Refer the first paragraph of the passage carefully, "IT is a truth that should now be universally acknowledged, that everywhere in the world our lives are driven by computers—or more specifically by the workings of information and communication technology (ICT) and, therefore, the Internet. Our dependence on them is not

- just temporary or partial; it is continuous and overwhelming." Hence it can be inferred from the passage that only option (a) defines the hidden meaning behind statement used by the author in a better way.
26. (3) It can be easily understood from the passage that the author has tried to alarm against the excess use of technology and the security concerns related to the same. Moreover, the author has tried to come up with subject-oriented style of writing with an intention to explain and describe about the dependency of people on IT sector. Hence "alarming, expository" is the correct set of words which describe the mood and writing style of the author respectively.
27. (4) *Ensnare* means happen or occur afterwards or as a result. *Supervene* means occur as an interruption or change to an existing situation. Hence both are almost similar in meanings.
Denounce means publicly declare to be wrong or evil.
28. (2) Contingency means a future event or circumstance which is possible but cannot be predicted with certainty. Fortuity means a chance occurrence. Hence both are similar in meanings.
Menace means a person or thing that is likely to cause harm; a threat or danger.
29. (3) Quotidian means ordinary or everyday; mundane. So "unusual" is the word most opposite in meaning to it.
30. (5) Resilience means the capacity to recover quickly from difficulties; toughness. So "fragility" is the word most opposite in meaning to it.
Compliance means the action or fact of complying with a wish or command.
Suppleness means pliant; flexible.
31. (1) $\approx 25 \times 4.2 + 64 \times 40$
 $\approx 105 + 2560$
 ≈ 2665
32. (4) $\approx 19 \times 29 + 1332 = ? \times 4$
 $551 + 1332 = ? \times 4$
 $? = \frac{1883}{4} \approx 471$
33. (1) $\Rightarrow \frac{30}{100} \times 780 + \frac{43}{100} \times 800 = 528 + ?$
 $\Rightarrow 234 + 344 = 528 + ?$
 $? = 578 - 528 = 50$
34. (5) $\approx 64 \div 11 \times 6.25$
 ≈ 36
35. (3) $\sqrt{7} \times 32 = 299 - 51 + 40$
 $\sqrt{7} = \frac{288}{32} = 9$
 $? = 81$
36. (2) Total S.I. = $\frac{1800 \times 2 \times 20}{100} = \text{Rs. } 720$
Total C.I. = $(1800 - P) \left[\left(1 + \frac{30}{100}\right)^2 - 1 \right]$
 $= (1800 - P) \times \frac{69}{100}$
ATQ, $(1800 - P) \times \frac{69}{100} - 720 = 315$
or, $(1800 - P) = \frac{100}{69} \times 1035$
or, $1800 - P = 1500$
 $\Rightarrow P = 300$
37. (1) Let their initial investments be $7x$, $5x$ and $3x$ respectively
Ratio of their profit = $7x \times 6 + 3x \times 6 : 5x \times 12 : 3x \times 12$
 $= 60x : 60x : 36x$
 $= 15 : 15 : 9$
A's profit = $3600 \times \frac{39}{9} \times \frac{15}{39}$
 $= \text{Rs. } 6000$

38. (3) Let, CP of B be $x + 120$
And that of A be x
Then, $\frac{25}{100} \times x + \frac{40}{100} (x + 120) = 178$
or, $\frac{65x}{100} + 48 = 178$
or, $x = 200$
C.P. of B = $x + 120 = \text{Rs. } 320$
39. (4) Let, age of A be ' x ' years,
Then age of B = ' $x + 10$ ' years
And age of C = $3x$ years
ATQ, $\frac{x+10+11}{3x} = \frac{3}{2}$
or, $(x + 21)2 = 9x$
or, $7x = 42$
 $\Rightarrow x = 6$
Age of C after 7 years = $3x + 7 = 18 + 7 = 25$ years

40. (4) $\frac{2\pi r h}{\pi r^2 h} = \frac{4}{7}$
or, $\frac{2}{r} = \frac{4}{7}$
or, $r = \frac{7}{2}$
also, $\frac{2r}{h} = \frac{14}{5}$
 $\Rightarrow h = \frac{5}{2}$
Total surface area = $2 \times \frac{22}{7} \times \frac{7}{2} \left(\frac{7}{2} + \frac{5}{2} \right)$
 $= 22 \times \frac{12}{2}$
 $= 132$



46. (4) Growth rate = $\frac{\text{Final value} - \text{Initial value}}{\text{Initial value}} \times 100$
Nokia = $\frac{105 - 69}{69} \times 100 = \frac{36}{69} \times 100 \approx 52\%$
Samsung = $\frac{122 - 91}{91} \times 100 = \frac{31}{91} \times 100 = 34.06\%$
MI = $\frac{103 - 71}{71} \times 100 = \frac{32}{71} \times 100 = 45\%$
Moto = $\frac{25 - 15}{15} \times 100 = \frac{10}{15} \times 100 = 66.67\%$
Lenovo = $\frac{163 - 100}{100} \times 100 = \frac{63}{100} \times 100 = 63\%$
Hence, Moto witnessed highest growth rate in production from 2006 to 2012

47. (1) Total Nokia phones = 620 thousand
Total MI phones = 605 thousand
required percentage = $\frac{620}{605} \times 100 \approx 102\%$

48. (2) Total production of the company Nokia.
 $= 69 + 75 + 81 + 98 + 93 + 99 + 105$
 $= 620$ (in thousands)
Total production of company Lenovo
 $= 100 + 120 + 102 + 131 + 143 + 154 + 163$
 $= 913$ (in thousands)
 $\therefore \text{Ratio} = \frac{620}{913} = 620 : 913$

49.(1) Total phones produced in 2008=380 thousand
Total phones produced in 2011=486 thousand
Required ratio=190:243

50. (3) Growth rate in production of company from nokia 2006 to 2010
 $Nokia = \frac{93-69}{69} \times 100 = \frac{24}{69} \times 100 = 34.78\%$
 $Samsung = \frac{110-91}{91} \times 100 = \frac{19}{91} \times 100 = 20.879\%$
 $MI = \frac{92-71}{71} \times 100 = \frac{21}{71} \times 100 = 29.577\%$
 $Moto = \frac{24-15}{15} \times 100 = \frac{9}{15} \times 100 = 60\%$
 $Lenovo = \frac{143-100}{100} \times 100 = \frac{43}{100} \times 100 = 43\%$
 From above, samsung has witnessed minimum growth rate.

51. (2) Sum can be odd in two cases :
 1. First card is odd numbered & second one is even.
 2. First card is even numbered & second one is odd.
 Required probability = $\frac{13}{25} \times \frac{12}{24} + \frac{12}{25} \times \frac{13}{24}$
 $= \frac{13}{25}$

52. (3) ATQ, $\frac{D-11}{2x} = \frac{4D}{16x}$
 or, $D = 22$ km
 also, $\frac{D-2}{2} = 2x$
 or, $D - 2 = 4x$
 or, $x = 5$

53. (2) Speed of boat = $9x = 45$ kmph
 Let, C takes x days to complete the work alone
 Then, B takes $\frac{x}{3}$ days to complete the work alone
 $\frac{1}{x} + \frac{3}{x} = \frac{1}{12}$
 or, $x = 48$ days
 Suppose, A and B take 'y' days to complete the work together
 Then, A takes $2y$ days to complete the work alone
 $\frac{1}{2y} + \frac{1}{16} = \frac{1}{y}$
 or, $\frac{1}{2y} = \frac{1}{16}$
 or, $2y = 16$
 Hence, A will take 16 days

54. (1) Money spent on brother = $\frac{1}{4} \times 68\% = 17\%$
 Money spent on sister = $\frac{9}{17} \times 68\% = 36\%$
 ATQ,
 (36% - 17%) of total = 3800
 \Rightarrow Total = Rs. 20000
 Saving = $\frac{100-(32+17+36)}{100} \times 20000$
 $= \frac{15}{100} \times 20000$
 = Rs. 3000

55. (5) $\frac{x-2}{y+3} = \frac{3}{2}$
 or, $2x - 4 = 3y + 9$
 or, $2x - 3y = 13$ (i)
 $\frac{x-4}{y+7} = \frac{5}{3}$
 or, $3x - 12 = 5y + 35$
 or, $3x - 5y = 47$ (ii)
 Solving (i) and (ii),
 $x = -76, y = -55$
 Fraction = $\frac{76}{55}$

56. (2) Female population of village B = $\frac{3}{7} \times \frac{35}{100} \times 2500 = 375$
 Required % = $\frac{375}{1750} \times 100 = 21\frac{3}{7}\%$

57. (4) Required % = $\frac{(35+20) - (15+12)}{(15+12)} \times 100 = \frac{55-27}{27} \times 100 = 103\frac{19}{27}\%$

58. (3) Required difference =

$$\left[\frac{(35+15)}{2} - \frac{(12+8)}{2} \right] \times 25 = (25-15) \times 25$$

$$= 10 \times 25 = 250$$

59. (5) Female population of village D = $\frac{450}{5} \times 4 = 90 \times 4 = 360$

Female population of village C = $\frac{360}{3} \times 2 = 240$
 Required population = 360 + 240 = 600

60. (4) Male population of village G = $107\frac{7}{9}\%$ of 450 = 485
 Required % = $\frac{485}{2500} \times 100 = 19.4\%$

61. (3) I. $6x^2 - 9x - 4x + 6 = 0$
 Or, $3x(2x - 3) - 2(2x - 3) = 0$
 Or, $x = \frac{2}{3}, \frac{3}{2}$
 II. $4y^2 - 16y - y + 4 = 0$
 Or, $y = 4, \frac{1}{4}$

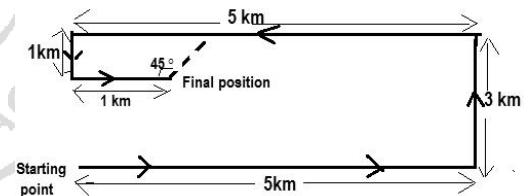
No relation
 62. (2) I. $x^2 - 7x + 3x - 21 = 0$
 Or, $x = 7, -3$
 II. $y^2 - 15y + 56 = 0$
 Or, $y = 7, 8$
 $\therefore y \geq x$

63. (3) On adding, $2x^2 = 4232$
 Or, $x = \pm 46$
 On subtracting, $2y^2 = 2450$
 Or, $y = \pm 35$
 No relation

64. (1) I. $x^2 = 6$
 Or, $x = \pm\sqrt{6}$
 II. $y^3 = 512$
 Or, $y = 8$
 $\therefore y > x$

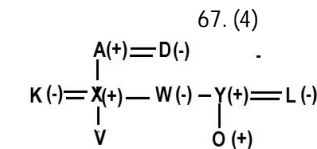
65. (4) I. $x = \frac{84}{21} = 4$
 II. $y = 225 - 222 = 3$
 $\therefore x > y$

66-67.



66. (2)

68-70.



68. (5)

71-75.

67. (4)

69. (3)

70. (2)

Step1: From the given definite conditions: - Vijay lives on even number floor but above 2nd floor and he is not using Mi-Note 4 or I-Phone 7 . Rahul is using Lenovo K6 and lives above Vijay on an odd numbered floor. There are three friends living between the floor on which Rahul lives and the one who like Moto G5. The one who likes Moto G5 does not lives on 1 st Floor. So from these given statements there is two possibility in which Vijay either sits on the 4 th floor or on the 6 th floor.

Case 1:

Floor	Friends	Mobile
7	Rahul	Lenovo k6
6		
5		
4	Vijay	MI-NOTE 4/I-Phone 7
3		Moto G5
2		
1		

Case 2:

Floor	Friends	Mobile
7	Rahul	Lenovo k6
6	Vijay	MI-NOTE 4/I-Phone 7
5		
4		
3		Moto G5
2		
1		

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Step 2: It is given that, Vipul lives on 3rd numbered Floor. There are two floors gap between the persons who uses Lenovo K6 and the one who uses Mi-Note 4. Vijay does not use I Phone7 and MI Note4, so from these Case 1 is eliminated and hence we have to continue with case 2.

Case 2:

Floor	Friends	Mobile
7	Rahul	Lenovo k6
6	Vijay	MI-NOTE 4/I Phone 7
5		
4		Mi-Note 4
3	Vipul	Moto G5
2		
1		

Step 3: Now it is given that Suman uses Samsung Young and lives on even number floor, Suman lives immediately above Preeti and Preeti does not using MI-Note 4 or Nokia 6, hence Preeti stays on first floor and uses I phone 7 and Nokia 6 user stays on 5th floor as it is given that Kamal is using Nokia 6 and stays on odd numbered Floor but above Suman. Hence we get our final arrangement.

Case 2:

Floor	Friends	Mobile
7	Rahul	Lenovo k6
6	Vijay	Moto E 4
5	Kamal	Nokia 6
4	Raman	Mi-Note 4
3	Vipul	Moto G5
2	Suman	Samsung Young
1	Preeti	I Phone 7

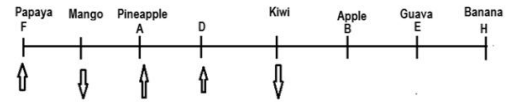
- 71. (4)
- 73. (2)
- 76. (1)
- 77. (4)
- 78. (5)
- 79. (3)
- 80. (2)
- 81-85.

- 72. (4)
- 74. (3)
- II. F > M (False)
- II. T < S (False)
- II. I > A (True)
- II. P ≤ G (False)
- II. O = S (True)

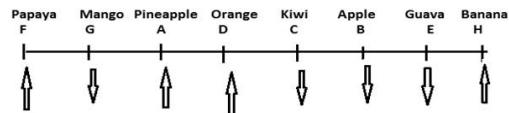
75. (2)

- 81. (3)
- 83. (4)
- 86. (2)

above conditions Case 2 will be eliminated. As it is given that only four of them are facing south direction.



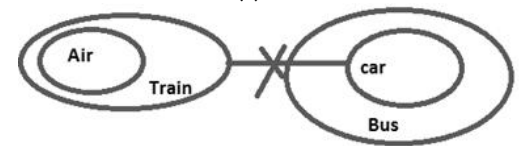
(iv) C does not like Mango. D does not like Papaya. Both immediate neighbors of C face opposite direction. E does not face north direction.



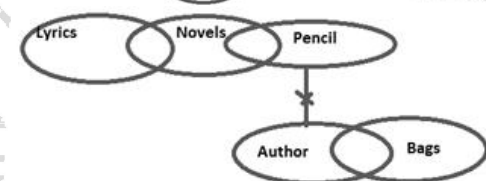
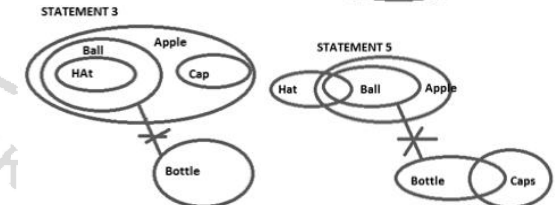
82. (5)

84. (4)

85. (4)

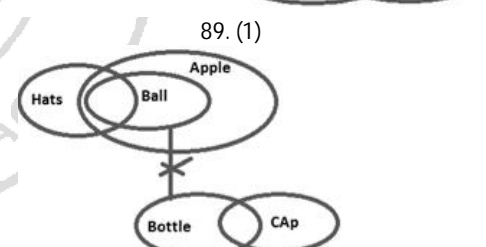


87. (3)



88. (2)

90. (3)



89. (1)

91-93.

From the given definite conditions: P weighs more than only O (P > O). M weighs more than Q and N, but less than R. Box Q contains 2 balls and weighs more than N Weight R > M > Q > N > P > O
Now it is given that Q contains 2 balls. Box N contains 4 balls, and difference of balls of (M - N) box equal to 1 and M contains more than 3 balls. So Box M contains 5 balls. R contains more than M so R = 6 balls.
So we can deduce the following arrangement from the above given condition

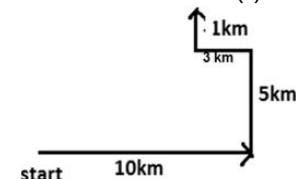
$$R (6) > M (5) > Q (2) > N (4) > P (1/3) > O (1/3)$$

91. (3)

92. (5)

93. (3)

94-95.



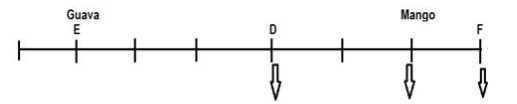
94. (1)

95. (3)

Case 1:

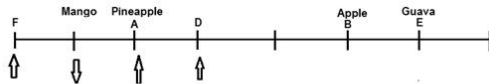


Case 2:

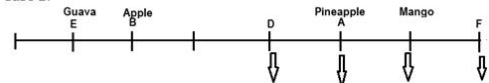


(ii) B likes Apple and sits third to the right of A, who is an immediate neighbor of D. B does not sit at an extreme end. A likes Pineapple.

Case 1:



Case 2:



(iii) Three people sit between the one who likes papaya and kiwi. H who likes Banana sits third to the left of the one who likes kiwi. D does not like Papaya. So from the

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96-100. (i) P buys perk and a band of Green colour. The one who buys band of green color has age which is a perfect cube. T buys band of Red color. U buys 5-star but does not buy band of Pink or Blue color. R either buys Dairymilk or Temptation. So there will be two possible cases:

Person	Chocolate	Color of Bands	Age
P	Perk	Green	27
Q			
R	Dairymilk		
S			
T		Red	
U	5-Star		
V			

Person	Chocolate	Color of Bands	Age
P	Perk	Green	27
Q			
R	Temptation		
S			
T		Red	
U	5-Star		
V			

Person	Chocolate	Color of Bands	Age
P	Perk	Green	27
Q	Munch	Blue	26
R	Dairymilk	Pink	19
S	Bournwill	White	30
T	Kitkat	Red	21
U	5-Star	Black	25
V	Temptation	Yellow	20

96. (3)
98. (2)

97. (4)
99. (1)

100. (5)

(ii) The one who buys 5-star has age which is perfect square. V is second youngest among the given ages. R's age is a prime number.

Person	Chocolate	Color of Bands	Age
P	Perk	Green	27
Q			
R	Dairymilk		19
S			
T		Red	
U	5-Star		25
V			20

Person	Chocolate	Color of Bands	Age
P	Perk	Green	27
Q			
R	Temptation		19
S			
T		Red	
U	5-Star		25
V			20

(iii) The one who buy Temptation also buys band of Yellow color. R does not buy band of Yellow color. From this 2nd possibility will be eliminated. Now with 1st-----

(iv) Q does not buy temptation or Kitkat. S does not buy Temptation. So V buys Temptation and band of yellow color. The one who buys white bands also buys Bournwill. Q does not buy band of White or Black color. So S buys Bournwill. The one who buys Bournwill is oldest among all the friends.

Person	Chocolate	Color of Bands	Age
P	Perk	Green	27
Q	Munch		
R	Dairymilk		19
S	Bournwill	White	30
T	Kitkat	Red	
U	5-Star		25
V	Temptation	Yellow	20

(v) Q's age is an even number but not divisible by 5. U buys 5-star but does not buy band of Pink or Blue colour. Q does not buy band of White or Pink color.

