

SBI PO Preliminary Grand Test –SPP-190327

HINTS & SOLUTIONS

ANSWER KEY

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

HINTS & SOLUTIONS

1. (5) No correction required
2. (4) Whatever the reasons
3. (2) like being transported
4. (4) have paid little heed
5. (1) cannot wish away
6. (2)
7. (3)
8. (1)
9. (2)
10. (3)
11. (1) Only A
12. (4) All A, B and C
13. (3) The report mentioning that only a small percentage of graduates were employable in software Industry
14. (2) The commercialisation of education has already started in India
15. (2) Creation of autonomous institutes for management and technology which were not under university control
16. (5) All are true

17. (1) The meaning of the word Devious (Adjective) as used in the passage is : behaving in a dishonest or indirect way, or tricking people in order to get something; deceitful; underhand.

Look at the sentence :

He got rich by devious means. Hence, the words devious and dishonest are synonymous.

18. (3) The meaning of the word Measure (Noun) as used in the passage is : an official action that is done in order to achieve a particular aim; step.

Look at the sentence :

The government must take tough measures to combat crime.

Hence, the words measures and steps are synonymous.

19. (5) The meaning of the word Promote (Verb) as used in the passage is : to help some-thing to happen or develop; encourage.

The word Hamper (Verb) means : to prevent somebody from easily doing or achieving something; hinder.

Hence, the words promoting and hampering are antonyms.

20. (2) The meaning of the word Noteworthy (Adjective) as used in the passage is : deserving to be noticed or to receive attention because it is important; significant.

Hence, the words noteworthy and insignificant are antonyms.

21. (1)

22. (4)

23. (2)

24. (3)

25. (2)

26. (4)

27. (2)

28. (1)

29. (1)

30. (3)

31. (1)

The pattern is :

$$6 \times 3 - 3 = 18 - 3 = 15$$

$$15 \times 3 - 3 = 45 - 3 = 42 \neq \boxed{46}$$

$$42 \times 3 - 3 = 126 - 3 = 123$$

$$123 \times 3 - 3 = 369 - 3 = 366$$

$$366 \times 3 - 3 = 1098 - 3 = 1095$$

32. (4) The pattern is :

$$8 \times 2 + 8 = 16 + 8 = 24$$

$$24 \times 2 + 8 = 48 + 8 = 56$$

$$56 \times 2 + 8 = 112 + 8 = 120$$

$$120 \times 2 + 8 = 240 + 8 = 248$$

$$\neq \boxed{348}$$

$$248 \times 2 + 8 = 496 + 8 = 504$$

$$504 \times 2 + 8 = 1008 + 8 = 1016$$

33. (2) The pattern is :

$$138 + 1^2 = 138 + 1 = 139$$

$$139 + 2^2 = 139 + 4 = 143$$

$$\neq \boxed{145}$$

$$143 + 3^2 = 143 + 9 = 152$$

$$152 + 4^2 = 152 + 16 = 168$$

$$168 + 5^2 = 168 + 25 = 193$$

$$193 + 6^2 = 193 + 36 = 229$$

34. (5) The pattern is:
 $0.5 \times 1 + 10 = 0.5 + 10 = 10.5$
 $10.5 \times 2 + 10 = 21 + 10 = 31$
 $31 \times 3 + 10 = 93 + 10 = 103$
 $103 \times 4 + 10 = 412 + 10 = 422$
 $422 \times 5 + 10 = 2110 + 10 = 2120 \neq 2220$
 $2120 \times 6 + 10 = 12720 + 10 = 12730$

35. (2) The pattern is:
 $\frac{477-3}{2} = \frac{474}{2} = 237 \neq 227$
 $\frac{237-3}{2} = \frac{234}{2} = 117$
 $\frac{117-3}{2} = \frac{114}{2} = 57$
 $\frac{57-3}{2} = \frac{54}{2} = 27$
 $\frac{27-3}{2} = \frac{24}{2} = 12$

36. (2) Let the speed of boat in still water be u km/hr and speed of the current be v km/hr.
 Rate downstream = $(u + v)$ km/hr,
 Rate upstream = $(u - v)$ km/hr.
 Let the distance covered in each case x km. Then,

$$\frac{2x}{(u+v)} = \frac{x}{u-v}$$

$$\Rightarrow 2(u-v) = (u+v) \Rightarrow u = 3v$$

$$\Rightarrow \frac{u}{v} = \frac{3}{1}$$

37. (5) Let speed of boat B = x km/h and speed of boat A = $(x - 2)$ km/h

Therefore speed of current = $\left(\frac{x-2}{3}\right)$ km/h

Now according to the question

$$\frac{20}{(x-2) + \frac{(x-2)}{3}} = \frac{20}{x + \frac{x-2}{3}} + \frac{30}{60}$$

$$\frac{20 \times 3}{3x - 6 + x - 2} = \frac{20 \times 3}{3x + x - 2} + \frac{1}{2}$$

$$\frac{60}{4x - 8} = \frac{60}{4x - 2} + \frac{1}{2}$$

$$\frac{15}{x-2} - \frac{30}{2x-1} = \frac{1}{2}$$

$$\frac{30x - 15 - 30x + 60}{(x-2)(2x-1)} = \frac{1}{2}$$

$$\frac{45}{(x-2)(2x-1)} = \frac{1}{2}$$

$$(x-2)(2x-1) = 90$$

$$\Rightarrow 2x^2 - x - 4x + 2 = 90$$

$$\Rightarrow 2x^2 - 5x - 88 = 0$$

$$\Rightarrow 2x^2 - 16x + 11x - 88 = 0$$

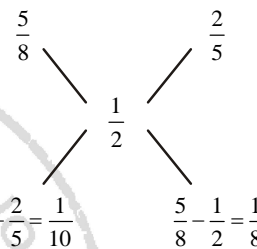
$$\Rightarrow x = 8, -\frac{11}{2} \left[x \neq -\frac{11}{2} \right]$$

38. (3) Speed of boat = 8 km/h
 Let Ravi Speed = x
 Ajay speed = $x + 4$
 Distance covered by Ajay = $60 + 12 = 72$
 Distance covered by Ravi = $60 - 12 = 48$
 According to question,
 $\frac{72}{x+4} = \frac{48}{x} \Rightarrow x = 8$ km/hr.

39. (3) Milk in First vessel = $\frac{5}{8}$

Milk in second vessel = $\frac{2}{5}$

Milk in resultant mixture = $\frac{1}{2}$



Required ratio = 4 : 5.

40. (1) A can complete the work in $3 \times 30 = 90$ hrs.
 B can complete the work in $4 \times 18 = 72$ hrs.

(A + B)'s 1 hour work = $\frac{1}{72} + \frac{1}{90} = \frac{5+4}{360} = \frac{9}{360} = \frac{1}{40}$

So, (A + B) can complete the work in 40 hours.

As they work 10 hours every day, they will complete the work in $\frac{40}{10} = 4$ days

41. (1) Male Engineers + Male Designers = 40% of (18% of 10500) + 35% of (16% of 10500)
 Therefore required ratio = $(40 \times 18) + (65 \times 16) : (60 \times 18) + (35 \times 16)$
 $= (720 + 1040) : (1080 + 560) = 1760 : 1640 = 44 : 41$.

42. (3) Required % = $\frac{19}{21} \times 100 \approx 90\%$

43. (2) Female professionals = 10500 (20% of 21% + 60% of 18% + 40% of 11% + 80% of 15% + 40% of 19% + 35% of 16%) = 4683.

Male = 10500 - 4683 = 5817
 Difference = 5817 - 4683 = 1134.

44. (4) Required % = $\frac{20\% \text{ of } 21}{80\% \text{ of } 15} \times 100\%$
 $= \frac{20 \times 21}{80 \times 15} \times 100 = \frac{420}{12} = 35\%$

45. (1) Required ratio = $\frac{60 \times 11}{20 \times 15} = 11 : 5$

46. (3) Required difference = $(0.04 \times 1100) - (0.06 \times 900) + (0.01 \times 800) + (0.08 \times 1200) - (0.06 \times 1000)$
 $= 44 - 54 + 8 + 96 - 60 = 34$

47. (2) Students favouring Prince Saini = $143 + 180 + 144 + 252 + 120 = 839$
 \therefore Required percentage

48. (4) $= \frac{839}{1200} \times 100 = 70\%$
 Girls in mechanical
 $= \frac{3}{8} \times \frac{16}{100} \times \frac{22}{100} \times 5000 = 66$
 \therefore Total number of girls = $66 \times 36 = 2376$
 So, required number of boys = 2624

49. (5) Number of students supporting K.L. Bali
 $= 154 + 144 + 176 + 240 + 120 = 834$
 \therefore Required ratio
 $= \frac{834}{1000} = \frac{417}{500}$

50. (3) Difference in votes
 $= 77 + 90 + 120 + 12 + 20 = 319$
 \therefore Required percentage
 $= \frac{319}{5000} \times 100 = 6.38\%$

51. (5) From statements I and III.
 Mother's present age = x years
 Radhika's present age = $\frac{2x}{11}$ years

After 4 years,
 $\frac{2x}{4} + 4 = \frac{1}{4}(x + 4) = \frac{x}{4} + 1$
 $\Rightarrow \frac{x}{4} - \frac{2x}{11} = 4 - 1 \Rightarrow \frac{11x - 8x}{44} = 3$
 $\Rightarrow 3x = 44 \times 3 \Rightarrow x = 44$
 \therefore Radhika's present age = $\frac{2}{11} \times 44 = 8$ years

52. (3) From second statement,
 Side of Square = $\sqrt{841} = 29$ cm.
 Height of tank = $3 \times 29 = 87$ cm.
 Capacity of tank = $2464 \times 87 = 214368$ cu. cm.
 Cost of milk = Rs. $(45 \times 214368) =$ Rs. 9646560

53. (5) From statement I,
 Actual C.P. = Rs. $(2450 + 250) =$ Rs. 2700
 From statements I and II,
 Let the marked price be Rs. x
 $\frac{x \times 95}{100} = 2700 \times \frac{120}{100}$
 $\Rightarrow x = \frac{2700 \times 120}{95} =$ Rs. 3410.5

From statement III,
 If the marked price be Rs. x then $\frac{x \times 95}{100} = 3240$
 $\Rightarrow x = \frac{3240 \times 100}{95} =$ Rs. 3410.5

54. (4) From statements I and III,
 Part of tank filled by pipe in 1 hour = $\frac{1}{16}$
 Part of tank filled by (pipe + leak) in 1 hour = $\frac{1}{24}$
 Part of tank emptied by leak in 1 hour
 $= \frac{1}{24} - \frac{1}{16} = \frac{2-3}{48} = \frac{-1}{48}$

\therefore Time taken to empty the tank = 48 hours

55. (5) From all three state, Total rent = Rs. 26600
 Ratio of consumption = $(18 \times 4) : (16 \times 6) : (14 \times 7)$
 $= 36 : 48 : 49$
 B's rent = $\left(\frac{48}{133} \times 26600\right) =$ Rs. 9600

56. (4)

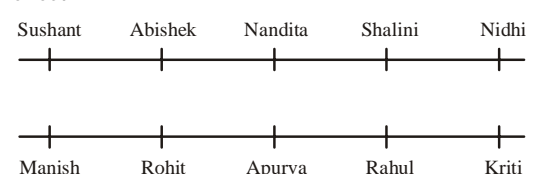
- 57. (2)
- 58. (1)
- 59. (3)
- 60. (1)
- 61. (2)
- 62. (2)
- 63. (1)
- 64. (4)
- 65. (5)
- 66. (4)
- 67. (5)
- 68. (3)
- 69. (2)
- 70. (1)
- 71 – 75.

- I. $B < L = P \leq W < V$ (TRUE)
- II. $M = K \geq V > W \geq P$ (TRUE)
- I. $L = P \leq W < V \leq K \geq Q$ (FALSE)
- II. $W < V \leq K = M$ (FALSE)
- I. $X \geq B = U \geq R$ (FALSE)
- II. $X \geq B = U \geq R$ (FALSE)
- I. $U \leq S < T = O > D$ (FALSE)
- II. $S < T = O \leq P$ (TRUE)
- I. $Z = O > D \geq Y$ (TRUE)
- II. $C > U \leq S < T = O$ (FALSE)

Person	Colour	Floor
P	Probationary Officer	Tabla
Q	Clerk	Vioin
R	Professor	Sitar
S	Doctor	Guitar
T	House Wife	Trumpet
U	Author	Saxophone
V	Teacher	Harmonium
W	Engineer	Flute

- 71. (2)
- 72. (3)
- 73. (1)
- 74. (2)
- 75. (5)
- 76. (4)
- 77. (2)
- 78. (5)
- 79. (1)
- 80. (1)
- 81-85.

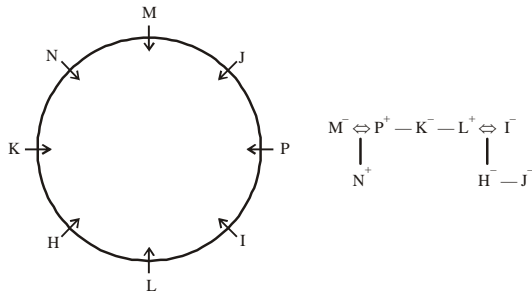
Both the statements (A) and (B) are effects of independent causes.
 Clearly statement (B) is the cause and statement (A) is its effects.
 Both the statements (A) and (B) are effects of some common cause.
 Clearly statement (A) is the cause and statement (B) is its effect.
 Clearly statement (A) is the cause and statement (B) is its effect.



- 81. (3)
- 82. (5)
- 83. (4)
- 84. (5)
- 85. (2)

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86-90.



99. (3)



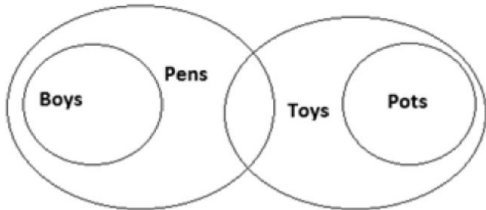
- 86.(3)
- 87.(2)
- 88.(1)
- 89.(3)
- 90.(4)
- 91. (2)

The machine first rearranges words which are along with numbers according to the ascending order of sum of the digits of the numbers. And then remaining words are arranged in descending order of the length of words. In case words are of equal length, then they are arranged in reverse alphabetical order. In the last step, except the words that are along with numbers, the place value of the first letter of the words is written in the place of words in alphabet.

Input: garden heat 36 in 28 below normal in 23 over
 Step I: in 23 garden heat 36 in 28 below normal over
 Step II: in 23 heat 36 garden in 28 below normal over
 Step III: in 23 heat 36 in 28 garden below normal over
 Step IV: in 23 heat 36 in 28 normal garden below over
 Step V: in 23 heat 36 in 28 14 7 2 15

- 92. (1) Step III
- 93. (4) normal
- 94. (1) Step IV
- 95. (2) normal

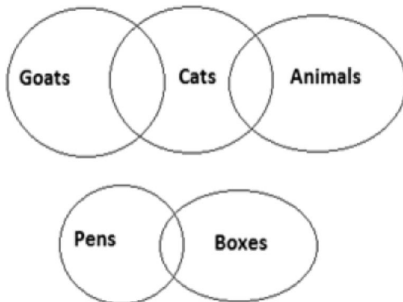
96. (5)



97. (4)



98. (5)



100. (5)

