

SBI PO Preliminary Grand Test –SPP-180536

HINTS & SOLUTIONS

ANSWER KEY

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

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1. (1) Only A
 2. (4) All A, B and C
 3. (3) The report mentioning that only a small percentage of graduates were employable in software Industry
 4. (2) The commercialisation of education has already started in India
 5. (2) Creation of autonomous institutes for management and technology which were not under university control
 6. (5) All are true
 7. (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.
 8. (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.

9. (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.
 10. (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.
 11 – 15 . The proper sequence of sentences to form a meaningful paragraph will be BDAEC.
 11. (4) 12. (1)
 13. (5) 14. (2)
 15. (3) 16. (2)
 17. (3) **Unremittingly (Adverb)** = never stopping; continuously.
 18. (2) **Remarkably (Adverb)** = surprisingly; astonishingly.
 19. (2)
 20. (4) **Maternal** = connected with being a mother.
 21. (2) Here, Present Perfect i.e., carrier has slashed its fares should be used because effect of past is experienced on the present.
 22. (2) The subject (The usage) is singular. Hence, has never been so common should be used.
 23. (2) Here, chocolate and red wine may safeguard should be used.
 Subject + may/might + V₁
 24. (1) Here, some of us are afraid (Adjective) of darkness should be used.
 25. (4) It is point of time. Hence, on Monday morning should be used.

26. (2) 27. (1)
 28. (2) 29. (3) 30. (1)
 31. (4) The pattern is :
 $1500 - 100 = 1400$
 $1400 - 116 (= 100 + 16) = 1284$
 $1284 - 164 (= 116 + 3 \times 16) = 1120$
 $1120 - 308 (= 164 + 48 \times 3) = 812$
 $812 - 740 (= 308 + 3 \times 144) = 72$
 32. (1) The pattern is :
 $4 \times 2 + 1 = 8 + 1 = 9$
 $9 \times 3 + 2 = 27 + 2 = 29$
 $29 \times 4 + 3 = 116 + 3 = 119$
 $119 \times 5 + 4 = 595 + 4 = 599$
 $599 \times 6 + 5 = 3594 + 5 = 3599$
 33. (4) The pattern is :
 $10 \times 1.5 = 15$
 $15 \times 2 = 30$
 $30 \times 2.5 = 75$
 $75 \times 3 = 225$
 $225 \times 3.5 = 787.5$
 34. (2) The pattern is :
 $2 \times 1 + 7 = 2 + 7 = 9$

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$$9 \times 2 + 7 = 18 + 7 = 25$$

$$25 \times 3 + 7 = 75 + 7 = 82$$

$$82 \times 4 + 7 = 328 + 7 = 335$$

$$335 \times 5 + 7 = 1675 + 7 = 1682$$

35. (1) The pattern is :

$$121 - 3 = 118$$

$$118 - 8 (= 3 + 5) = 110$$

$$110 - 15 (= 8 + 7) = 95$$

$$95 - 24 (= 15 + 9) = 71$$

$$71 - 35 (= 24 + 11) = 36$$

36. (2) Total sales of Dell and Samsung brand laptops by stores

F and G = 20 % of 48,000

$$= \frac{48,000 \times 20}{100} = 9600$$

Total sales of Samsung brand laptops sold by all the stores

$$= 48,000 - 30,000 = 18000$$

∴ Required percentage

$$= \left(\frac{18000 - 9600}{18000} \right) \times 100$$

$$= \frac{840000}{18000} = 47\%$$

37. (3) Total sales of Dell brand laptops by stores A, D, E and F

$$= (10 + 6 + 20 + 18)\% \text{ of } 30,000$$

$$= 30,000 \times \frac{54}{100} = 16200$$

Total sales of both types of laptops by these stores

$$= 48,000 \times \frac{51}{100} = 24480$$

∴ Samsung brand

$$\Rightarrow 24480 - 16200 = 8280$$

∴ Required ratio

$$= 16200 : 8280 = 45 : 23$$

38. (4) Number of Samsung and dell brand laptops sold by store

C in the year 2004

$$48,000 \times \frac{22}{100} = 10560$$

Dell brand laptops

$$= 30,000 \times \frac{18}{100} = 5400$$

Samsung brand laptops

$$\Rightarrow 10560 - 5400 = 5160$$

Required sales in the year 2005

$$= \frac{5400 \times 120}{100} + \frac{5160 \times 135}{100}$$

$$= 6480 + 6966 = 13446$$

39. (1) Total number of dell brand laptops sold by stores B, C, G and H

$$= (6 + 18 + 8 + 14) \% \text{ of } 30,000$$

$$= \frac{30,000 \times 46}{100} = 13800$$

$$\therefore \text{Required average} = \frac{13800}{4} = 3450$$

40. (2) Percentage sale of Dell and Samsung brand laptops by store E = 20

$$\therefore 100\% \equiv 360^\circ$$

$$\therefore 1\% \equiv \frac{360}{100}$$

$$\therefore 20\% \equiv \frac{360}{100} \times 20 = 72^\circ$$

41. (5) From statements I and III.

Mother's present age = x years

$$\text{Radhika's present age} = \frac{2x}{11} \text{ years}$$

After 4 years,

$$\frac{2x}{4} + 4 = \frac{1}{4}(x + 4) = \frac{x}{4} + 1$$

$$\Rightarrow \frac{x}{4} - \frac{2x}{11} = 4 - 1 \Rightarrow \frac{11x - 8x}{44} = 3$$

$$\Rightarrow 3x = 44 \times 3 \Rightarrow x = 44$$

$$\therefore \text{Radhika's present age} = \frac{2}{11} \times 44 = 8 \text{ years}$$

42. (3) From second statement,

$$\text{Side of Square} = \sqrt{841} = 29 \text{ cm.}$$

$$\text{Height of tank} = 3 \times 29 = 87 \text{ cm.}$$

$$\text{Capacity of tank} = 2464 \times 87 = 214368 \text{ cu. cm.}$$

$$\text{Cost of milk} = \text{Rs. } (45 \times 214368) = \text{Rs. } 9646560$$

43. (5) From statement I,

$$\text{Actual C.P.} = \text{Rs. } (2450 + 250) = \text{Rs. } 2700$$

From statements I and II,

Let the marked price be Rs. x

$$\frac{x \times 95}{100} = 2700 \times \frac{120}{100}$$

$$\Rightarrow x = \frac{2700 \times 120}{95} = \text{Rs. } 3410.5$$

From statement III,

$$\text{If the marked price be Rs. x then } \frac{x \times 95}{100} = 3240$$

$$\Rightarrow x = \frac{3240 \times 100}{95} = \text{Rs. } 3410.5$$

44. (4) From statements I and III,

$$\text{Part of tank filled by pipe in 1 hour} = \frac{1}{16}$$

$$\text{Part of tank filled by (pipe + leak) in 1 hour} = \frac{1}{24}$$

Part of tank emptied by leak in 1 hour

$$= \frac{1}{24} - \frac{1}{16} = \frac{2-3}{48} = -\frac{1}{48}$$

∴ Time taken to empty the tank = 48 hours

45. (5) From all three state, Total rent = Rs. 26600

$$\text{Ratio of consumption} = (18 \times 4) : (16 \times 6) : (14 \times 7) = 36 : 48 : 49$$

$$\text{B's rent} = \left(\frac{48}{133} \times 26600 \right) = \text{Rs. } 9600$$

46. (1) 12 years ago,

A's age = x years

∴ Age of A's uncle = 3x years

According to the question,

After 6 years from the present day,

$$3x + 18 = \frac{15}{8}(x + 18)$$

$$\Rightarrow 24x + 144 = 15x + 270$$

$$\Rightarrow 24x - 15x = 270 - 144$$

$$\Rightarrow 9x = 126 \Rightarrow x = \frac{126}{9} = 14$$

∴ Required ratio

$$= (3x + 14) : (x + 14)$$

$$= (42 + 14) : (14 + 14)$$

$$= 56 : 28 = 2 : 1$$

47. (2) Let the number of work men in the beginning be x.

According to the question,

$$M_1 D_1 = M_2 D_2$$

$$\Rightarrow x \times 18 = (x - 8) \times 22$$

$$\Rightarrow 9x = (x - 8) \times 11$$

$$\Rightarrow 9x = 11x - 88$$

$$\Rightarrow 11x - 9x = 88$$

$$\Rightarrow 2x = 88 \Rightarrow x = \frac{88}{2} = 44$$

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48. (2) Rate downstream of boat

$$\frac{\text{Distance}}{\text{Time}} = \left(\frac{9.8}{\frac{21}{60}} \right) \text{ kmph}$$

$$= \left(\frac{9.8 \times 60}{21} \right) \text{ kmph} = 28 \text{ kmph}$$

Speed of current = 3.5 kmph.

∴ Speed of boat in still water = 28 - 3.5 = 24.5 kmph.

∴ Rate upstream of boat = (24.5 - 3.5) kmph.

= 21 kmph.

If the distance between places A and B be x km, then

$$\frac{x}{28} + \frac{x}{21} = \frac{385}{60} = \frac{77}{12}$$

$$\Rightarrow \frac{3x + 4x}{84} = \frac{77}{12}$$

$$\Rightarrow 7x = \frac{77}{12} \times 84 = 77 \times 7$$

$$\Rightarrow x = \frac{77 \times 7}{7} = 77 \text{ km.}$$

49. (1) Radius of cylindrical vessel = 20 cm.

$$\therefore \text{Height of cylindrical vessel} = \frac{20 \times 30}{100} = 6 \text{ m.}$$

Volume of cylindrical vessel = $\pi r^2 h$

$$= \left(\frac{22}{7} \times 20 \times 20 \times 6 \right) \text{ cu. cm.}$$

∴ Required quantity of water = 21% of the volume of cylinder

$$= \left(\frac{22}{7} \times \frac{20 \times 20 \times 6 \times 21}{100} \right) \text{ cu. cm.} = 1584 \text{ cu. cm.}$$

50. (2) Amount invested in the scheme B = Rs. x (let)

∴ Amount invested in the scheme A = Rs. (27600 - x)

$$\text{S.I.} = \frac{\text{Principal} \times \text{Time} \times \text{Rate}}{100}$$

According to the question,

$$\frac{(27600 - x) \times 8 \times 6}{100}$$

$$= \frac{x \times 11 \times 4}{100}$$

$$\Rightarrow (27600 - x) \times 12 = 11x$$

$$\Rightarrow 27600 \times 12 - 12x = 11x$$

$$\Rightarrow 23x = 27600 \times 12$$

$$\Rightarrow x = \frac{27600 \times 12}{23} = \text{Rs. } 14400$$

51. (1) Male Engineers + Male Designers

$$= 40\% \text{ of } (18\% \text{ of } 10500) + 35\% \text{ of } 16\% \text{ of } 10500$$

Therefore required ratio

$$= (40 \times 18) + (65 \times 16) : (60 \times 18) + (35 \times 16)$$

$$= (720 + 1040) : (1080 + 560) = 1760 : 1640 = 44 : 41.$$

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

53. (2) Female professionals

$$= 10500 (20\% \text{ of } 21\% + 60\% \text{ of } 18\% + 40\% \text{ of } 11\%$$

$$+ 80\% \text{ of } 15\% + 40\% \text{ of } 19\% + 35\% \text{ of } 16\%)$$

$$= 4683.$$

$$\text{Male} = 10500 - 4683 = 5817$$

$$\text{Difference} = 5817 - 4683 = 1134.$$

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

$$= \frac{20 \times 21}{80 \times 15} \times 100 = \frac{420}{12} = 35\%$$

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

56. (2) Required percentage = $(70 - 50) / 50 \times 100 = 40\%$

57. (4) Required % = $\frac{(80 - 50)}{50} \times 100\% = 60\%$

58. (2) Required % = $\frac{(50 + 70) - (40 + 70)}{(40 + 70)} \times 100\%$

$$= \frac{10 \times 100}{110} \% = 9.09\%$$

59. (1) Required ratio = $\frac{(60 + 40 + 50)}{(50 + 70 + 60)} = \frac{150}{180}$

i.e. 5 : 6

60. (5) Required percentage $60 / 420 \times 100 = 14$ (approx)

61. (3) ? = $\sqrt{1230} + \sqrt{4230}$

$$\sqrt{1225} + \sqrt{4225} = 35 + 65 = 100$$

62. (2) ? = $7 \frac{3}{11} \times 626 - 7 \frac{1}{3}$

$$= \frac{80 \times 626}{11} - 7 \frac{1}{3}$$

$$= 4552 - 7 = 4545$$

63. (2) ? = $\frac{49 \times 5051}{100} - \frac{3}{7} \times 999$

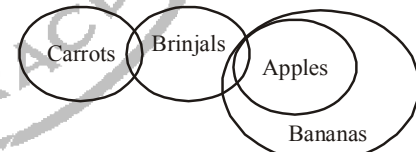
$$= 2475 - 430 = 2045$$

64. (1) ? = $\frac{4329}{19} + \frac{6464}{13}$

$$= 228 + 497 = 725$$

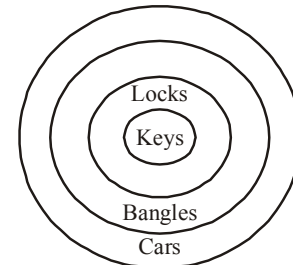
65. (2) ? = $(4)^3 + (30)^2$

$$= 64 + 900 = 964$$



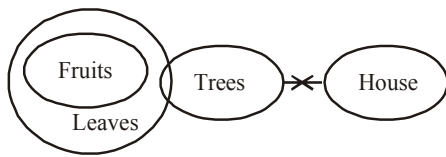
66. (2) (i) × (ii) ✓ (iii) ×

Only (ii) follows.



67. (5) (i) ✓ (ii) ✓ (iii) ✓

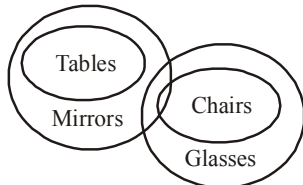
All (i), (ii), (iii) follows.



68. (4)

(i) ✓✗ (ii) ✗ (iii) ✗✓

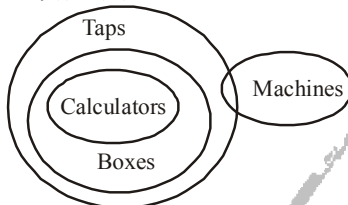
Either (i) or (iii) follows.



69. (3)

(i) ✓ (ii) ✗ (iii) ✓

Only (i) & (iii) follows.



70. (3)

(i) ✗ (ii) ✓ (iii) ✓

Only (ii) & (iii) follows.

71. (3)

From statement I

Rank of Rani from the top = $40 - 31 + 1 = 10$
Therefore, rank of Sunita = $10 - 4 = 6^{\text{th}}$

From Statement II

Rank of Amit from the top = $40 - 37 + 1 = 4^{\text{th}}$
Therefore, rank of Sunita = $4 + 2 = 6^{\text{th}}$

72. (4)

From statement II

Nisha is cousin of Nidhi.

From statement II

Nisha is cousin or brother/sister of Nidhi.

73. (2)

From statement I

Nikhil after turning to his left would face towards west.
Therefore, Kumud is facing towards east.

From statement II

It is not possible to determine Kumud is facing which direction.

74. (5)

From statement II

The colour of fresh grass is green.
Here green is called brown.

75. (1)

From statement I

Samar > Rakesh > Karan, Ramesh
There is no information about Vishwas.

From statement II

Except Samar anyone could be the tallest.

From both the statements

Vishwas is the tallest.

(76 – 79):

Days	Friends	Courses
Monday	V	Law
Tuesday	Q	MBBS
Wednesday	T	Arts
Thursday	S	Science
Friday	P	Engineering
Saturday	P	MBA

Sunday	U	Commerce
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76. (5)

P joined MBA on Saturday. R joined Engineering on Friday.

77. (4)

Q joined MBBS on Tuesday.

78. (3)

U joined Commerce on Sunday.

79. (4)

S joined Science on Thursday.

80. (2)

Obviously, option (2) may not be a reason for the problem discussed in the paragraph.

81. (4)

Obviously, option (4) cannot be a reason for the given problem.

82. (3)

Obviously, option (3) presents alarming situation and hence it cannot weaken the given statement.

83. (1)

Obviously, statement (1) cannot be a consequence of the steps taken by the Government of State X.

84. (4)

$I > J \geq K = L \leq N = M$

Now, $I > L$ and $M \geq K$

85. (4)

$P < Q \leq R \leq S$

Now, $S > P$.

86 – 90. Summarising all the information we get :

H	Chennai	Marathi
I	Hyderabad	Telugu
J	Bangalore	Kannada
K	Ahmedabad	Punjabi
L	Delhi	Bangla
M	Kolkata	Tamil
N	Mumbai	Hindi

86. (5)

87. (3)

88. (1)

89. (4)

90. (2)

91. (4)

Both the statements (A) and (B) are effects of independent causes.

92. (2)

Clearly statement (B) is the cause and statement (A) is its effects.

93. (5)

Both the statements (A) and (B) are effects of some common cause.

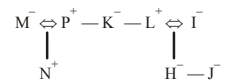
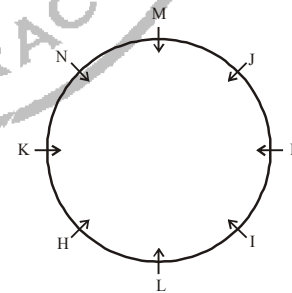
94. (1)

Clearly statement (A) is the cause and statement (B) is its effect.

95. (1)

Clearly statement (A) is the cause and statement (B) is its effect.

96-100.



96. (3)

97. (2)

98. (1)

99. (3)

100. (4)