SBI PO Preliminary Grand Test –SPP-180311

HINTS & SOLUTIONS

ANSWER KEY

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

HINTS & SOLUTIONS

1. (2) All (A), (B) and (C)
2. (4) Only (B) and (C)
3. (5) Technology - Reshaping the Future of Education
4. (1) Analyzing the strengths and weaknesses of a student and designing an educational syllabus accordingly
5. (4) The education system is not guided by technology and hence the pace of learning is slow
6. (3) All (A), (B) and (C)
7. (4) The meaning of the word Paradigm (Noun) as used in the passage is : a typical example or pattern of something.
   Look at the sentence:
   The war was a paradigm of the destructive side of human nature.
   Hence, the words paradigm and model are synonymous.
8. (5) The meaning of the word Delegate (Verb) as used in the passage is : to give part of your work, power or authority to somebody; to choose somebody to do something.
   Look at the sentence:
   Some managers find it difficult to delegate.
   Hence, the words delegated and assigned are synonymous.
9. (4) The meaning of the word Inequitable (Adjective) as used in the passage is : not fair, not the same for everyone.
   Hence, the words inequitable and fair are antonymous.
10. (3) The meaning of the word Languish (Verb) as used in the passage is : to be forced to stay somewhere or suffer something unpleasant for a long time.
    The word Flourish (Verb) means : to develop quickly; to grow well; thrive.
    Hence, the words languish and flourish are antonymous.
11. (2) F 12. (4) D
13. (5) E 14. (1) B
15. (3) C
16. (1) 17. (2) 18. (3)
19. (2) 20. (1)
21. (4) The subject of the sentence 'these companies' is Plural. Hence, 'its board members' should be replaced by 'their board members'.
22. (3) The subject of the sentence is 'the scheme' that is Singular and it will take Singular Verb. Hence, 'require an additional investment' should be replaced by 'requires an additional investment'.
23. (5) No error
24. (4) Replace 'and supervise the new staff by 'and supervising the new staff as word 'arranging' (Present Participle) has been used before connective 'and'.
25. (5) No error
26. (3) different rates of interest
27. (4) we take some
28. (1) what impact
29. (5) No correction required
30. (3) not have much good
31. (2) The pattern of the number series is :
    $13 + 3 = 16$
    $16 + (3 + 3) = 22$
    $22 + (6 + 5) = 33$
    $33 + (11 + 7) = 51$
    $51 + (18 + 9) = \boxed{78}$
32. (3) The pattern of the number series is :
    $39 + 1 \times 13 = 52$
    $52 + 2 \times 13 = 78$
    $78 + 3 \times 13 = 117$
    $117 + 4 \times 13 = 169$
    $169 + 5 \times 13 = \boxed{234}$
33. (2) The pattern of the number series is :
    $62 + 5^2 = 62 + 25 = 87$
    $87 + 10^2 = 87 + 100 = 187$
    $187 + 15^2 = 187 + 225 = 412$
    $412 + 20^2 = 412 + 400 = 812$
    $812 + (25)^2 = 812 + 625 = \boxed{1437}$

34. (1) The pattern of the number series is :

$7 + 1^2 = 8$

$8 + 4^2 = 24$

$24 + 9^2 = 105$

$105 + 16^2 = 361$

$361 + 25^2 =$ **986**

35. (1) The pattern of the number series is :

656 - 224 = 432

432 - 112 = 320

320 - 56 = 264

264 - 28 = 236

236 – 14 = **222**

36. (3) Average of 8 consecutive odd numbers = $\frac{656}{8} = 82$

∴ Fourth number = 82 - 1 = 81

∴ First numbers = 75

Average of 4 even numbers = 87

∴ Second even number = 87 - 1 = 86

Second largest even number = 88

∴ Required sum = 75 + 88 = 163

37.(5) First S.P. = $\frac{9600 \times 95}{100}$ = Rs.9120

Second S.P.= $\frac{9120 \times 105}{100}$ = Rs.9576

Loss = 9600 - 9576 = Rs. 24

38. (1) Rate downstream of boat = 17.5 + 2.5 = 20 kmph

Rate upstream of boat = 17.5 - 2.5 = 15 kmph

Distance XY = x km.

∴ Distance YZ = $\frac{2x}{5}$ km.

Total time = 429 minutes = $7\frac{3}{20}$ hours = $\frac{143}{20}$ hours

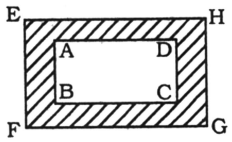
$\therefore \frac{x}{20} + \frac{2x}{5\times15} = \frac{143}{20} \quad \left[\because \frac{\text{Distance}}{\text{Speed}} = \text{Time}\right]$

$\Rightarrow \frac{x}{4} + \frac{2x}{15} = \frac{143}{4} \Rightarrow \frac{15x+8x}{60} = \frac{143}{4}$

$\Rightarrow 23x = 143\times15 \Rightarrow x = \frac{143\times15}{23} = 93\text{km}$

$\therefore$ Total distance $= x + \frac{2x}{5} = \frac{7x}{5} = \frac{7\times93}{5} = 130\text{km}$

39. (2)



Width of Park = x metre (let)

∴ Its length = (x + 11) metre

∴ x(x + 11) = 242 = 11(11 + 11) ⇒ x = 11 metre = width

∴ Length = 22 metre

Length of park with path

= 22 + 2 × 5 = 32 metre = EH Width

= 11 + 2 × 5 = 21 metre = EF

∴ Area of path = EH × EF - AB × BC

= 32 × 21 – 242 = 672 - 242 = 430 sq. metre

40. (3) Jaya's age 10 years ago = x years = Simaran's present age

Jaya's present age = (x + 10) years

According to the question,

x + 10 + 8 + x - 12 = 90 ⇒ 2x + 6 = 90

⇒ 2x = 90 - 6 = 84 ⇒ x = $\frac{84}{2}$ = 42 years

∴ Komal's present age = 42 - 9 = 33 years

∴ Komal's age 13 years ago = 33 - 13 = 20 years

41. (2) $\text{Req.}\% = \frac{700-500}{500}\times100 \Rightarrow \frac{200}{500}\times100 = 40\%$

42. (1) Total export of all three companies in the year 2008 = 600 + 700 + 800 = 2100

Total export of all three companies in the year 2010 = 400 + 600 + 800 = 1800

Required ratio = 2100 : 1800 = 7 : 6

43. (2) $2008 \rightarrow \frac{200}{1000}\times100 = 20\%(\text{decrease})$

$2009 \rightarrow \frac{200}{800}\times100 = 25\%(\text{decrease})$

$2010 \rightarrow \frac{200}{600}\times100 = 33\frac{1}{2}\%(\text{decrease})$

$2011 \rightarrow \frac{200}{400}\times100 = 50\%(\text{increase})$

$2012 \rightarrow \frac{300}{600}\times100 = 50\%(\text{increase})$

44. (3) $\text{Average} = \frac{800+700+500+800+1000+700}{6}$

= 750 thousand tones

45. (3) $\text{Req.}\% = \frac{3500\times100}{4500} = 77.77\% \approx 78\%$

46. (2) From statement II,

$M_1D_1 = M_2D_2$

$\Rightarrow 8\times12 = 5\times D_2$

$\Rightarrow D_2 = \frac{8\times12}{5} = \frac{96}{5}$

$= 19\frac{1}{5}$ days

47. (5) From statement II,

If the present age of Shyam be x years then

Ram's present age = (x + 7) years

From statement I,

$\frac{x+7}{x} = \frac{4}{3}$

$\Rightarrow$ 4x = 3x + 21

$\Rightarrow$ x = 21

∴ Shyam's age after 6 years = 21 + 6 = 27 years

48. (4) Data from both the statements are inadequate.

49. (5) From statements I and II, Simple interest

$= ` \left(\frac{5000\times3\times5}{100} + \frac{5000\times3\times8}{100}\right)$

= Rs. (750 + 1200) = Rs. 1950

50. (1) From statement I,

Required C.P.

= Rs. (4 × 85 + 3 × 50)

= Rs. (340 + 150) = Rs. 490

51. (1) Required average

$= \frac{1}{6}(800 + 810 + 920 + 930 + 950 + 970)$

$= \frac{1}{6} \times 5380 = 896\frac{2}{3} = 897$

52. (2) Total number of students: City Q $\Rightarrow$ 390 + 570 + 930 + 220 + 810 = 2920

City S $\Rightarrow$ 780 + 980 + 1100 + 280 + 930 = 4070

Required difference = 4070 - 2920 = 1150

53. (3) Number of students in Medical Science in cities R and S = 680 + 980 = 1660

Number of students in Polytechnic in cities P and S = 900 + 1100 = 2000

Difference = 2000 - 1660 = 340

Required percent = $\frac{340}{2000} \times 100 = 17\%$

54. (4) Required ratio = 650 : 260 = 5 : 2

55. (1) Required percent $= \frac{280-200}{200} \times 100 = \frac{8000}{200} = 40\%$

56. (2) Required average $= \frac{120}{6} =$ 20 thousand

57. (1) Required per cent $= \frac{20-15}{15} \times 100 = \frac{100}{3} = 33\frac{1}{3}\%$

58. (2) Required average $= \frac{13+27+12}{3} = \frac{52}{3} = 17\frac{1}{3}$ thousands

59. (4) Required ratio = 15 : 18 = 5 : 6

60. (5) Required ratio = 18 : 27 = 2 : 3

61. (2) 194 + 228 + x + 422 = 1168

x = 1168 – 844 = 324

62. (4) $x = \frac{12}{7} \times \frac{90}{13} \times \frac{53}{9} \approx 70$

63. (1) $888888 \div 88 \div 8 = x \Rightarrow x = \frac{10101}{8} \approx 1263$

64. (3) 28 × 29 × 17 = x

x ≈ 13822

65. (5) $x = \frac{1334}{2.1} \times 6 + 12 \approx 3800$

66. (1) J ÷ P % H ? T % L

J is son of P

P is mother of H

T is mother of C

Only H is sister of T is satisfy the J is brother of T.

So, in place of ? is ×.

67. (2) Only 2 is satisfy the M is the daughter of D.

L is father of R

R is wife of D

D is father of M

M is sister of T.

68. (2) I + T % J × L ÷ K

I is father of T

T is mother of J

J is sister of C

L is son of K

From above relation only K is son-in-law of I is true.

69. (4) If Y is son of X is definitely false in only 4.

W $ X + L + Y + T

W is wife of X

X is father of L

L is father of Y

Y is father of T

70. (4) R % T × P ? Q + V.

R is mother of T

T is sister of P

Q is father of V

T is sister-in-law of Q is possible only.

P is wife of Q in place of ? is $.

71. (1) The company has been making huge losses for the past five years and is unable to pay salary to its employees in time.

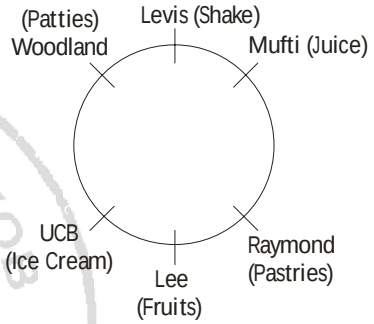
72. (3) The IT and ITES companies have now decided to visit the engineering college campuses for tier II cities in India as well.

73. (3) Process of poverty measurement needs to take into account various factors to tackle its dynamic nature.

74. (1) It may not be possible to have an accurate poverty measurement in India.

75. (2) Increase in number of per-sons falling into poverty varies considerably across the country over a period of time.

76 – 80.



76. (3) N

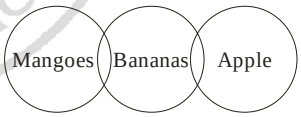
77. (4) Raymond

78. (5) None of these

79. (1) L – Raymond – Pastries

80. (4) Woodland

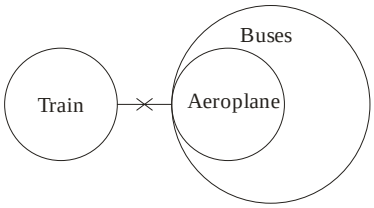
81. (1)



I) ✓ II) ×

Therefore only I follows.

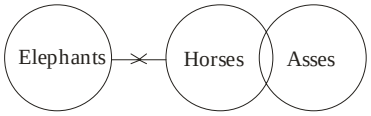
82. (5)



I) × II) ✓

Therefore only II follows.

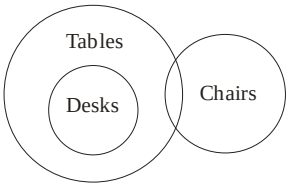
83. (2)



I) × II) ✓

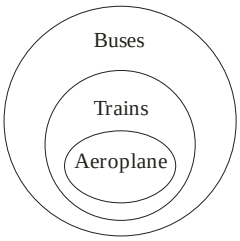
Therefore only II follows.

84. (4)



I) ✓ II) ✓
Therefore both I and II follows.

85. (4)



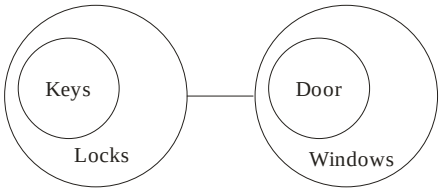
I) ✓ II) ×
Therefore only I follows.

86-90.

Student	Class	Favourite Subject
A	VII	Marathi
B	VI	Geography
C	VI	Economics
D	VIII	Chemistry
E	VII	Biology
F	VI	Physics
G	VII	Mathematics
H	VIII	English

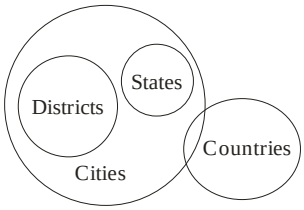
86. (1) H likes English.
87. (5) G's favourite subject is Mathematics.
88. (1) C's favourite subject is Economics.
89. (5) None is correct.
90. (3) A, E and G study is Standard VIII.
91. (5) Both the assumptions are implicit in the statement. If it is recommended to check financial status of client, it implies that it is possible to assess the financial status of client.
92. (5) Both the assumptions are implicit in the statement.
93. (2) Only assumption II is implicit in the statement.
94. (1) Only assumption I is implicit in the statement.
95. (2) The statement compares the duration of journey.
Therefore, assumption I is not implicit in the statement.
Clearly, assumption II is implicit in the statement.
96. (5) $E < F \leq G = H > S$
(I) $G > s$ (ii) $F \leq H$
(i) is true, (ii) is true
Both (i) and (ii) is true.
97. (1) $P \leq Q < W = L$
(i) $L > P$ (ii) $Q \leq L$
(i) is true, (ii) is false
Only (i) is true

98. (1)



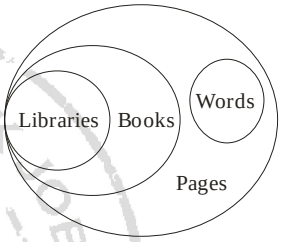
I. ✓ II. ×
Only (I) follows.

99. (4)



I. × II. ×
Neither (I) nor (II) follows.

100. (2)



I. × II. ✓
Only (II) follows.