

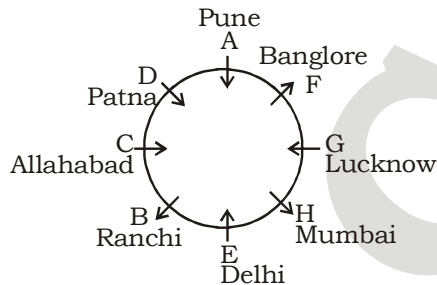
SBI PO PHASE - I - 145 (SOLUTION)

REASONING

(1-5) :

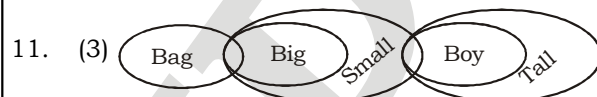
1. (5) $R \leq P \leq U < L$
I. $L > R \rightarrow$ True
 $R \leq P \leq U \leq K$
II. $K \geq R \rightarrow$ True
2. (3) $H = I \leq R \leq M$
I. $M = I \rightarrow$ Doubt
II. $M > I \rightarrow$ Doubt
3. (2) $N \leq H \geq I < S$
I. $N \leq S \rightarrow$ False
II. $N < D \rightarrow$ True
4. (2) $I > O \geq P > Y > W$
I. $Y \leq I \rightarrow$ False
II. $O > W \rightarrow$ True
5. (1) $A \geq B > C > Z$
I. $A > Z \rightarrow$ True
 $E > D \geq C \geq F$
II. $F > E \rightarrow$ False

(6-10):

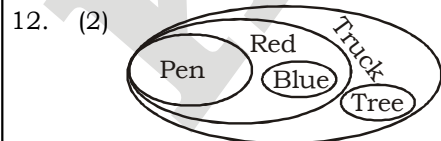


6. (4) 7. (3) 8. (2)
9. (2) 10. (4)

(11-15):



11. (3)
I. False II. False
III. True IV. True
Only II and IV follow



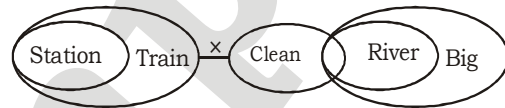
12. (2)
I. True II. True
III. False IV. False
Only I and II follows

13. (4)



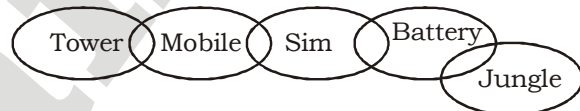
- I. False II. False
III. True IV. False
Only II follows

14. (2)



- I. True II. Doubt
III. False IV. Doubt
Only I and either II or IV follow

15. (5)



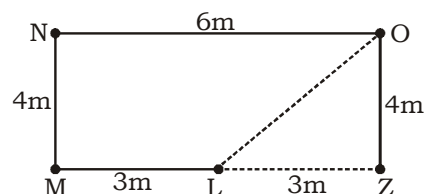
- I. Doubt II. True
III. False IV. Doubt
Only either I or IV and II follow

(16-20) :

Employee	Month	Date
D	January	11 th
H	January	13 th
A	January	17 th
B	January	24 th
G	July	11 th
C	July	13 th
F	July	17 th
E	July	24 th

16. (2) 17. (3) 18. (5)
19. (1) 20. (5)

(21-23):



21. (4) 22. (2)

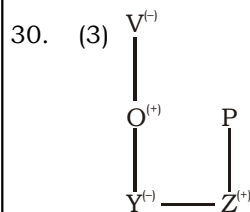
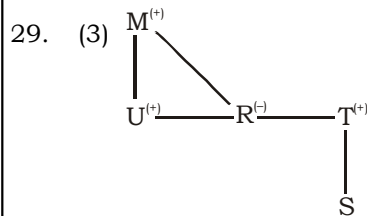
23. (2) $OL = \sqrt{4^2 + 3^2}$
 $= \sqrt{25} = 5 \text{ m}$

(24-28):

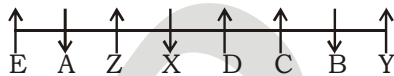
Floor	Person	Mobile	Day
7	G	Micromax	Wednesday
6	B	LG	Monday
5	A	Redmi	Tuesday
4	E	Samsung	Friday
3	D	Lenovo	Sunday
2	F	Nokia	Saturday
1	C	Motorola	Thursday

24. (4) 25. (1) 26. (4)
 27. (5) 28. (5)

(29-30) :



(31-35):



31. (1) 32. (2) 33. (3)
 34. (4) 35. (3)

Maths

(36-40) :

36. (4) $\frac{3}{7} \times \frac{4}{9} \times \frac{2}{5} \times 3719 = ?$
 $\Rightarrow ? = 495.56 \approx 500$
 37. (3) $0.008 + 6.009 \div (0.7)^2 = ?$
 $\Rightarrow ? = 6.017 \div 0.49$
 $= 12.27 \approx 12$
 38. (5) $(\sqrt[3]{795657 \times 7}) \div (3.8 \times 5.5) = ?$

$\Rightarrow ? \approx 93 \times 7 \div 20.9$
 $= 31.14 \approx 31$

39. (4) $98 \times 785 \div (285)^2 = ?$
 $\Rightarrow ? = \frac{98 \times 785}{285 \times 285} = 0.94 \approx 0.9$

40. (1) $\sqrt{749} \times 0.56 + 14.38 = ?$
 $\Rightarrow ? \approx 27 \times 0.56 + 14.38$
 $= 15.12 + 14.38 = 29.5 \approx 30$

(41 - 45) :

41. (2) Required number of females
 $= 1500 \times \frac{40}{100} \times \frac{5}{8} = 375$
 42. (2) Required % = $\left(\frac{8}{13} \times 100\right)\%$
 $= 61.53\% \approx 62\%$
 43. (3) Required number of females
 $= 750 \times \frac{54}{100} \times \frac{4}{9} = 180$
 44. (3) Total number of qualified candidates in state C = $600 \times \frac{28}{100} = 168$
 \therefore Number of female candidates qualified in state C = $168 - 68 = 100$
 \therefore Required ratio = $68 : 100 = 17 : 25$
 45. (3) Required average
 $= \frac{1}{2} \times \left(600 \times \frac{72}{100} + 1040 \times \frac{60}{100}\right)$
 $= \frac{1}{2} \times (432 + 624)$
 $= \frac{1}{2} \times 1056 = 528$

(46-50):

46. (2) The number series is:
 $3^3 + 3 = 30$
 $6^3 - 6 = 210$
 $9^3 + 9 = 738 \neq 742$
 $12^3 - 12 = 1716$
 $15^3 + 15 = 3390$
 $18^3 - 18 = 5814$
 47. (3) The number series is:
 $1440 - (17)^2 + 1 = 1152$
 $1152 - (15)^2 + 3 = 930$
 $930 - (13)^2 + 5 = 766$
 $766 - (11)^2 + 7 = 652 \neq 651$
 $652 - (9)^2 + 9 = 580$

48. (4) The number series is:

$$\begin{aligned} 18 \times 3 + 5 &= 59 \\ 59 \times 3 + 10 &= 187 \\ 187 \times 3 + 15 &= 576 \\ 576 \times 3 + 20 &= 1748 \neq 1749 \\ 1748 \times 3 + 25 &= 5269 \end{aligned}$$

49. (2) The number series is:

$$\begin{aligned} 7 \times 1 + 15 &= 22 \\ 22 \times 2 + 20 &= 64 \\ 64 \times 3 + 25 &= 217 \neq 216 \\ 217 \times 4 + 30 &= 898 \\ 898 \times 5 + 35 &= 4525 \\ 4525 \times 6 + 40 &= 27190 \end{aligned}$$

50. (1) The number series is:

$$\begin{aligned} 16 + (21)^3 &= 9277 \neq 9278 \\ 9277 + (18)^3 &= 15109 \\ 15109 + (15)^3 &= 18484 \\ 18484 + (12)^3 &= 20212 \end{aligned}$$

51. (3) $CI - SI = \frac{PR^2(300+R)}{(100)^3}$

$$\Rightarrow 2994.134 = \frac{26000 \times R^2(300+R)}{1000000}$$

$$\Rightarrow 2994134 = 26R^2(300+R)$$

$$\Rightarrow 26R^3 + 7800R^2 = 2994134$$

$$\Rightarrow R^3 + 300R^2 - 115159 = 0$$

$$\Rightarrow R = 19\% \text{ (By using option)}$$

52. (1) Required number of ways

$$= 8! \times 4! = 9,67,680$$

53. (6) 6 children completes the work = $\frac{9 \times 10}{6}$

$$= 15 \text{ days}$$

$$\therefore 6 \text{ men completes the work} = 1 \div \left(\frac{1}{6} - \frac{1}{15} \right)$$

$$= 1 \div \frac{1}{10} = 10 \text{ days}$$

$$\therefore 15 \text{ men completes the work} = \frac{6 \times 10}{15}$$

$$= 4 \text{ days}$$

54. (2) Let the money be ₹x.

ATQ,

$$\frac{x \times 4 \times 3}{100} \times \frac{x \times 8 \times 2}{100} + \frac{x \times 9 \times 2}{100}$$

$$= 19550$$

$$\Rightarrow 46x = 19550 \times 100$$

$$\Rightarrow x = \frac{19550 \times 100}{46} = ₹42,500$$

55. (5) Side of square = $\frac{112}{4} = 28 \text{ m}$

$$\begin{aligned} \therefore \text{Area of circle} &= \pi r^2 = \frac{22}{7} \times 28 \times 28 \\ &= 2464 \text{ m}^2 \end{aligned}$$

(56-60) :

56. (2) Required ratio = 40 : 35 = 8 : 7

57. (5) Required average

$$= \left(\frac{25+15+10+40+30}{5} \right) \times 1000$$

$$= \frac{120000}{5} = 24,000$$

58. (2) Required less%

$$= \left(\frac{25000 - 10000}{25000} \times 100 \right) \% = 60\%$$

59. (1) Required difference

$$\begin{aligned} &= (15000 + 40000 + 25000) - (15000 \\ &+ 25000 + 35000) \\ &= 80000 - 75000 = 5000 \end{aligned}$$

60. (2) Required total

$$\begin{aligned} &= (15 + 5 + 25 + 35 + 25 + 15) \times 1000 \\ &= 1,20,000 \end{aligned}$$

61. (3) Let the present age of A and B are 6x and 11x respectively.

ATQ,

$$\frac{6x-4}{11x-4} = \frac{1}{2}$$

$$\Rightarrow 12x - 8 = 11x - 4$$

$$\Rightarrow x = 4$$

\(\therefore\) B's age after 5 years

$$= 4 \times 11 + 5 = 49 \text{ years}$$

62. (5) Required difference

$$= \pi \left[\left(\frac{220}{2\pi} \right)^2 - \left(\frac{88}{2\pi} \right)^2 \right]$$

$$= \frac{22}{7} \left[\left(\frac{220}{2 \times 22} \times 7 \right)^2 - \left(\frac{88}{2 \times 22} \times 7 \right)^2 \right]$$

$$= \frac{22}{7} [1225 - 196]$$

$$= \frac{22}{7} \times 1029 = 3,234 \text{ m}^2$$

63. (3) Sum of adjacent angles of parallelogram = 180°

$$\therefore \text{One angle of triangle} = \frac{2}{9} \times 180^\circ = 120^\circ$$

$$\therefore \text{Sum of remaining two angles} = 180^\circ - 120^\circ = 60^\circ$$

$$\therefore \text{Second largest angle} = 60 \times \frac{7}{12} = 35^\circ$$

64. (1) Sarita = 100

$$\text{Lata} = 100 \times \frac{90}{100} = 90$$

$$\text{Sneha} = 90 \times \frac{120}{100} = 108$$

$$\therefore \text{Sarita investment} = \frac{17880}{298} \times 100$$

₹6,000

65. (2) S = $63 + 30 = 93$

$$P = 93 - 15 = 78$$

$$\therefore Q + R = 3 \times 63 - 78 = 111$$

(66-70):

66. (2) I. $x^2 - 32x + 255 = 0$

$$\Rightarrow x^2 - 15x - 17x + 255 = 0$$

$$\Rightarrow x(x - 15) - 17(x - 15) = 0$$

$$\Rightarrow x = 15, 17$$

II. $2y^2 - 36y + 162 = 0$

$$\Rightarrow y^2 - 18y + 81 = 0$$

$$\Rightarrow y^2 - 9y - 9y + 81 = 0$$

$$\Rightarrow y(y - 9) - 9(y - 9) = 0$$

$$\Rightarrow y = 9, 9$$

Clearly, $x > y$

67. (1) I. $\frac{1}{\sqrt{3}}x^2 - \frac{5}{\sqrt{3}}x + 2\sqrt{3} = 0$

$$\Rightarrow \frac{x^2 - 5x + 6}{\sqrt{3}} = 0$$

$$\Rightarrow x^2 - 5x + 6 = 0$$

$$\Rightarrow x^2 - 3x - 2x + 6 = 0$$

$$\Rightarrow x(x - 3) - 2(x - 3) = 0$$

$$\Rightarrow x = 3, 2$$

II. $(\sqrt{3} + 1)y^2 + \frac{10}{(\sqrt{3} - 1)}y - \frac{12}{(\sqrt{3} - 1)} = 0$

$$\Rightarrow \frac{8y^2 + 10y - 12}{(\sqrt{3} - 1)} = 0$$

$$\Rightarrow 4y^2 + 5y - 6 = 0$$

$$\Rightarrow 4y^2 + 8y - 3y - 6 = 0$$

$$\Rightarrow 4y(y + 2) - 3(y + 2) = 0$$

$$\Rightarrow y = -2, \frac{3}{4}$$

Clearly, $x > y$

68. (5) I. $x^2 - 3x - 378 = 0$

$$\Rightarrow x^2 - 21x + 18x - 378 = 0$$

$$\Rightarrow x(x - 21) + 18(x - 21) = 0$$

$$\Rightarrow x = 21, -18$$

II. $3y^2 - 75y + 468 = 0$

$$\Rightarrow y^2 - 25y + 156 = 0$$

$$\Rightarrow y^2 - 13y - 12y + 156 = 0$$

$$\Rightarrow y(y - 13) - 12(y - 13) = 0$$

$$\Rightarrow y = 12, 13$$

69. (3) I. $(\sqrt{x})^3 + 9\sqrt{x} + \frac{20}{\sqrt{x}} = 0$

$$\Rightarrow x^2 + 9x + 20 = 0$$

$$\Rightarrow x^2 + 5x + 4x + 20 = 0$$

$$\Rightarrow x(x + 5) + 4(x + 5) = 0$$

$$\Rightarrow x = -5, -4$$

II. $y^2 - 19y + 84 = 0$

$$\Rightarrow y^2 - 12y - 7y + 84 = 0$$

$$\Rightarrow y(y - 12) - 7(y - 12) = 0$$

$$\Rightarrow y = 12, 7$$

Clearly, $x < y$

70. (3) I. $(x^2 - 4)^3 = 0$

$$\Rightarrow x^2 - 4 = 0$$

$$\Rightarrow x^2 = 0$$

$$\Rightarrow x = +2, -2$$

II. $y^2 - 49y + 444 = 0$

$$\Rightarrow y^2 - 37y - 12y + 444 = 0$$

$$\Rightarrow y(y - 37) - 12(y - 37) = 0$$

$$\Rightarrow y = 37, 12$$

Clearly, $x < y$

ENGLISH LANGUAGE

(81-90):

81. Replace 'on' with 'over'. "Take on" means to challenge.

82. Replace 'is' with 'are' because further down the sentence 'staff has been used as plural

83. Replace 'India's' with 'Indian'.

84. Either replace 'task' with 'tasks' or remove 'among'.

85. Replace "to do" with "to be done".

86. Replace 'compensating' with 'compensation'.

87. Replace 'environmentally' with 'environment'.

88. Replace 'what' with 'which'.

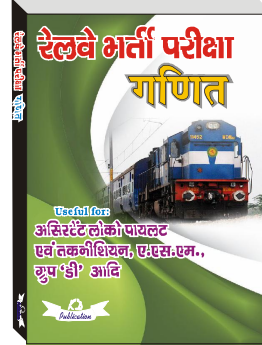
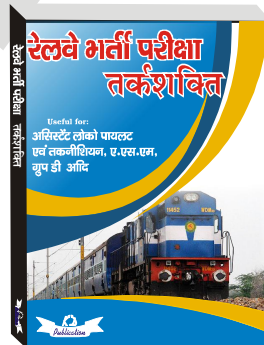
89. Replace 'price' with 'priced'.

90. Replace 'plans' with 'plan'.

VOCABULARIES

Word	Meaning in English	Meaning in Hindi
Predict	say or estimate that (a specified thing) will happen in the future or will be a consequence of something	भविष्यवाणी
Befuddled	make (someone) unable to think clearly	मतवाला हो जाना
Optimistic	hopeful and confident about the future	आशावादी
Hilarious	extremely amusing	उल्लासित
Explicit	stated clearly and in detail, leaving no room for confusion or doubt	स्पष्ट
Succumb	fail to resist (pressure, temptation, or some other negative force)	मर जाना
Pursue	follow (someone or something) in order to catch or attack them	पीछा करना
Precisely	in exact terms; without vagueness	ठीक
Terrestrial	of, on, or relating to the earth	लौकिक
Soaking	an act of wetting something thoroughly	शोषण
Extinct	(of a species, family, or other larger group) having no living members	विलुप्त
Plagues	a contagious bacterial disease characterized by fever and delirium, typically with the formation of buboes (see bubonic plague) and sometimes infection of the lungs (pneumonic plague)	विपत्ति
erupting	(of a volcano) become active and eject lava, ash, and gases	फूटना
encompass	surround and have or hold within	धरना

For all RRB competitive exams



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SBI PO PHASE - I - 145 (ANSWER KEY)

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

Note:- If you face any problem regarding result or marks scored, please contact 9313111777

Note:- Whatapp with Mock Test No. and Question No. at 7053606571 for any of te doubts. Join the group and you may also share your suggestions and experience of sunday Mock Test.

Note:- If your opinion differs regarding any answer, please message the mock test and question number to 8860330003