

SBI PO PHASE - I - 146 (SOLUTION)

REASONING

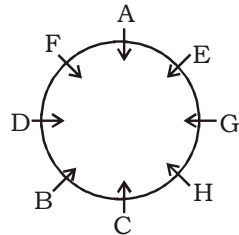
(1-3) :

$$Q > S > U > R > T > P$$

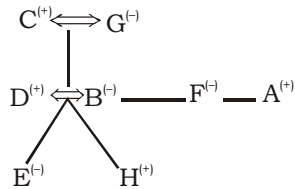
$$\begin{array}{ccc} & \downarrow & \downarrow \\ & 81 & 62 \end{array}$$

1. (1) 2. (5) 3. (3)

(4-8):



Family Tree



4. (2) 5. (4) 6. (3) 7. (1)

8. (5)

(9-13):

$$\& \rightarrow \geq \quad @ \rightarrow \leq$$

$$\# \rightarrow = \quad \% \rightarrow >$$

$$\$ \rightarrow <$$

9. (2) $M \leq N < O \geq P = Q$

- I. $Q < O \rightarrow$ False
 II. $Q \leq O \rightarrow$ True
 III. $M < O \rightarrow$ True
 IV. $Q = M \rightarrow$ False
 II and III are true

10. (5) $A = B \geq C > D > E$

- I. $A \geq C \rightarrow$ True
 II. $E < B \rightarrow$ True
 III. $B > D \rightarrow$ True
 IV. $A > D \rightarrow$ True
 All are true

11. (5) $A \geq B < C \leq D > E$

- I. $B > E \rightarrow$ False
 II. $A \geq D \rightarrow$ False
 III. $B \leq E \rightarrow$ False
 IV. $A < D \rightarrow$ False
 None is true

12. (5) $A > B \leq C \geq D = E$

- I. $C > E \rightarrow$ False

II. $A \geq C \rightarrow$ False

III. $A < C \rightarrow$ False

IV. $B = D \rightarrow$ False

13. (3) $T > U \geq V < Z \leq X$

I. $T \geq V \rightarrow$ False

II. $T > V \rightarrow$ True

III. $X \geq V \rightarrow$ False

IV. $X > V \rightarrow$ True

II and IV are true

(14-18):

Person	Country	Day
P	Dubai	Wednesday
Q	Thailand	Sunday
R	China	Saturday
S	France	Thursday
T	Singapore	Tuesday
U	England	Friday
V	Japan	Monday

14. (4) 15. (1) 16. (3) 17. (3)

18. (5)

(19-23):

In the first step, two smallest numbers are removed to the left end. In the next step, two words with minimum characters are removed. In the next step again, next two smallest numbers are removed. This process is followed alternatively till last step.

Input: ice money 21 13 good 18 12 qualify 35 eligible 41 browse candidates 10

Step I: 10 12 ice money 21 13 good 18 qualify 35 eligible 41 browse candidates

Step II: ice good 10 12 money 21 13 18 qualify 35 eligible 41 browse candidates

Step III: 13 18 ice good 10 12 money 21 qualify 35 eligible 41 browse candidates

Step IV: money browse 13 18 ice good 10 12 21 qualify 35 eligible 41 candidates

Step V: 21 35 money browse 13 18 ice good 10 12 qualify eligible 41 candidates

Step VI: qualify eligible 21 35 money browse 13 18 ice good 10 12 41 candidates

Step VII: 41 qualify eligible 21 35 money browse 13 18 ice good 10 12 candidates

Step VIII: candidates 41 qualify eligible 21 35 money browse 13 18 ice good 10 12

19. (3) 20. (4) 21. (4) 22. (1)

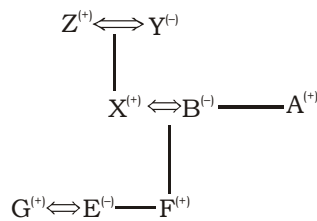
23. (3)

(24-28):

Floor	Person	Mobile
10	-	-
9	H	LG
8	B	Redmi
7	C	Samsung
6	G	Nokia
5	F	Motorola
4	-	-
3	E	Karbon
2	A	Vivo
1	D	Lenovo

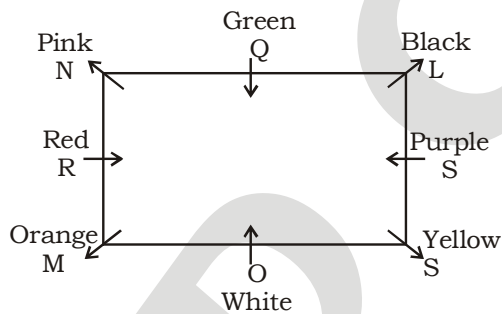
24. (1) 25. (5) 26. (3) 27. (3)
28. (5)

(29-30):



29. (1) 30. (3)

(31-35):



31. (5) 32. (4) 33. (2)
34. (4) 35. (5)

Maths

(36-40):

36. (1) $369.01 \div 9.03 + 123.98 \div 8.01 + 1824.91 = ?$
 $\Rightarrow ? \approx 369 \div 9 + 124 \div 8 + 1825$
 $= 41 + 16 + 1825 = 1882$
37. (2) $\sqrt{675.984} + 88.021 \div 10.985 \times 6.025 = 16.987 \times ?$
 $\Rightarrow 17 \times ? \approx \sqrt{676} + 88 \div 11 \times 6$

$$\Rightarrow 17 \times ? = 26 + 8 \times 6$$

$$\Rightarrow ? = \frac{74}{17} = 4.35 \approx 4$$

38. (2) $\sqrt{675.984} \times 17.025 + 135.985 \div 17 = 9 \times ?$

$$\Rightarrow ? \times 9 \approx \sqrt{676} \times 17 + 136 \div 17$$

$$\Rightarrow ? \times 9 = 26 \times 17 + 9$$

$$\Rightarrow ? = \frac{451}{9} = 50.11 \approx 50$$

39. (1) $39.92\% \text{ of } 264.97 + 35.03\% \text{ of } 179.98 = 50\% \text{ of } ? + ?\% \text{ of } 80.02$

$$\Rightarrow ? \times \frac{50}{100} + ? \times \frac{80}{100} \approx \frac{40}{100} \times 265 +$$

$$\frac{35}{100} \times 180$$

$$\Rightarrow ? \times \frac{1}{2} + ? \times \frac{2}{5} = 106 + 63$$

$$\Rightarrow 9 \times ? = 169 \times 5$$

$$\Rightarrow ? = \frac{169 \times 5}{9} = 93.88 \approx 100$$

40. (3) $(114 \frac{18}{24} + 234.98) = 7 \frac{3}{35} \times ?$

$$\Rightarrow ? \times 7 = 114 + 235$$

$$\Rightarrow ? = \frac{349}{7} = 49.85 \approx 50$$

(41 - 45):

41. (2) The number of male candidates qualified in SBI PO exam in branch

$$A = 25000 \times \frac{17}{100} \times \frac{27}{100} \times \frac{4}{9} = 510$$

$$B = 25000 \times \frac{19}{100} \times \frac{64}{100} \times \frac{3}{8} = 1,140$$

$$C = 25000 \times \frac{22}{100} \times \frac{55}{100} \times \frac{14}{25} = 1,694$$

$$D = 25000 \times \frac{24}{100} \times \frac{83}{100} \times \frac{7}{12} = 2,905$$

$$E = 25000 \times \frac{18}{100} \times \frac{52}{100} \times \frac{4}{13} = 720$$

∴ Required answer is branch D

42. (2) Required number = $25000 \times \frac{22}{100} \times \frac{55}{100}$

$$\times \frac{14}{25} = 1,694$$

43. (4) Required% = $\left(\frac{19}{18+17} \times 100\right)\%$

$$= 54.28\% \approx 54\%$$

44. (5) Number of qualified female candidates from branch C

$$= 25000 \times \frac{22}{100} \times \frac{55}{100} \times \frac{11}{25} = 1,331$$

$$\text{Required difference} = 1694 - 1331 = 363$$

45. (4) Required total = $25000 \left[\frac{19}{100} \times \frac{64}{100} + \right.$

$$\left. \frac{22}{100} \times \frac{55}{100} + \frac{18}{100} + \frac{52}{100} \right]$$

$$= 3040 + 3025 + 2340$$

$$= 8,405$$

(46-50):

46. (4) The number series is:

$$1 \times 7 = 7$$

$$7 \times 7 = 49$$

$$49 \times 7 = 343$$

$$343 \times 7 = \mathbf{2401}$$

47. (4) The number series is:

$$13 + 2^2 + 3 = 20$$

$$20 + 4^2 + 3 = 39$$

$$39 + 6^2 + 3 = 78$$

$$78 + 8^2 + 3 = 145$$

$$145 + 10^2 + 3 = \mathbf{248}$$

48. (1) The number series is:

$$12 \times 2 + 11 = 35$$

$$35 \times 2 + 11 = 81$$

$$81 \times 2 + 11 = 173$$

$$173 \times 2 + 11 = 357$$

$$357 \times 2 + 11 = \mathbf{725}$$

49. (5) The number series is:

$$3 + 97 = 100$$

$$100 + 197 = 297$$

$$297 + 297 = 594$$

$$594 + 397 = 991$$

$$991 + 497 = \mathbf{1488}$$

50. (3) The number series is:

$$112 + 7 \times 1 = 119$$

$$119 + 7 \times 3 = 140$$

$$140 + 7 \times 5 = 175$$

$$175 + 7 \times 7 = 224$$

$$224 + 7 \times 9 = \mathbf{287}$$

51. (3) Let CP = ₹100

$$\text{MP} = 100 \times \frac{130}{100} = ₹130$$

$$\text{Total SP} = 40 + 50 = ₹90$$

$$\therefore \text{Loss} = 100 - 90 = ₹10$$

$$\therefore \text{Loss\%} = \left(\frac{10}{100} \times 100\right)\% = 10\%$$

52. (4) Total ages of man and women

$$= 25 \times 2 = 50 \text{ years}$$

When the first son was born, the total ages = $3 \times 18 = 54$ years

This time the son age is 0 year, then the

$$\text{average age of man and women} = \frac{54}{2}$$

$$= 27 \text{ years}$$

When their daughter was born, the total ages = $4 \times 15 = 60$ years.

This time daughter age is 0 years, the average increased age of man, women

$$\text{and son} = \frac{60 - 54}{3} = \frac{6}{3} = 2 \text{ years}$$

\therefore Required average age of man and women

$$= \frac{60 - 2}{2} = 29 \text{ years}$$

53. (2) Total number of 8 different types of pen = $87 \times 8 = 696$

Total number of 6 different types of pen = $85 \times 6 = 510$

$$\therefore \text{Number of remaining pen} = 696 - 510 = 186$$

Now, let the highest and the next highest number of pen are x and $(x - 2)$, then

$$x + (x - 2), \text{ then}$$

$$\Rightarrow 2x = 188$$

$$\Rightarrow x = 94$$

54. (5)

55. (2) Volume of hemispherical ditch

$$= \frac{2}{3} \pi r^3 = \frac{2}{3} \pi (12)^3 = 1152\pi \text{ m}^3$$

Volume of the cylindrical ditch = volume of earth dug out = $\pi r^2 h$

$$= \pi 6^2 \times 2 = 72\pi \text{ m}^3$$

So, fraction of hemispherical ditch filled by the earth dug out from the cylindrical

$$\text{ditch} = \frac{72\pi}{1152\pi} = \frac{1}{16}$$

(56-60) :

56. (1) Average population of village A

$$= \frac{40 + 55 + 45 + 65 + 50 + 60}{6} \times 1000$$

$$= 52,500$$
 Average of population of village C

$$= \frac{55 + 50 + 60 + 55 + 60 + 50}{6} \times 1000$$

$$= 55,000$$
 Required difference = 55000 - 52500
 = 2,500

57. (4) Required less% = $\left(\frac{50 - 40}{50} \times 100\right)\%$
 = 20% less

58. (5) Required% in the year

$$2004 = \left(\frac{65 - 55}{55} \times 100\right)\% = 18.18\%$$

$$2002 = \left(\frac{55 - 50}{50} \times 100\right)\% = 10\%$$

$$2006 = \left(\frac{60 - 50}{50} \times 100\right)\% = 20\%$$

Required year is 2006

59. (3) Required% = $\left(\frac{50 + 60}{50} \times 100\right)\%$
 = 220%

60. (3) Required ratio = (45 + 45) : (50 + 45)
 = 90 : 95 = 18 : 19

61. (1) $(14W + 7M) \times 12$... (i)
 $(28W + 21M) \times 5$... (ii)
 $\Rightarrow 168W + 84M = 140W + 105M$
 $\Rightarrow 28W = 21M$

$$\Rightarrow 1M = \frac{28}{21} = \frac{4}{3}W$$

$$\therefore 9W + 9M$$

$$= 9W + 9 \times \frac{4}{3} = 21W$$

$$\text{Total work} = (14 + 7 \times \frac{4}{3}) \times 12 = 280$$

$$\therefore \text{Remaning work} = 280 - (21 \times 10) = 70$$

Let the number of extra women = x

ATQ,

$$\frac{70}{9 + x} = \frac{70}{21}$$

$$\Rightarrow 1470 = 630 + 70x$$

$$\Rightarrow 70x = 840$$

$$\Rightarrow x = \frac{840}{70} = 12 \text{ women}$$

62. (2) $20\% = \frac{1}{5}$

$$\begin{array}{r} 5 \times 36 \quad 6 \times 36 \\ 25 \times 6 \quad 36 \times 6 \\ \hline 125 \quad 216 \end{array}$$

$$\text{Total} = 455$$

ATQ,

$$455 \text{ unit} \rightarrow ₹5005$$

$$\therefore 216 \text{ unit} \rightarrow \frac{5005}{455} \times 216 = ₹2,376$$

63. (2)

	Book	Pen
CP	X	Y
SP	B	P

$y = 2x$ (Given)
 Profit = 10 (B - X) = 3P

$$\text{Profit}\% = \left(\frac{3P}{10x} \times 100\right)\%$$

$$\text{Loss} = 10 (y - P) = 4B$$

$$\text{Loss}\% = \left(\frac{4B}{10y} \times 100\right)\%$$

ATQ,

$$\left(\frac{3P}{10x} \times 100\right)\% = \left(\frac{4B}{10y} \times 100\right)\%$$

$$\Rightarrow \text{Putting } y = 2x$$

$$\therefore \frac{B}{P} = \frac{3}{2} = 3 : 2$$

64. (2) Total amount = 4 + 5 = 9

$$\text{Profit} = 9 \times \frac{30}{100} = 2.7$$

$$\text{Total amount} = 9 + 2.7 = 11.7$$

$$\text{Second amount} = \frac{11.7 \times 7}{6}$$

ATQ,

$$\therefore \frac{11.7 \times 7}{13} \rightarrow 94500$$

$$\therefore 5 \rightarrow \frac{94500 \times 5}{11.7 \times 7} \times 13$$

$$\therefore = ₹75,000$$

65. (4) Largest size of bucket = HCF of 806, 930 and 992
 $806 = 2 \times 13 \times 31$
 $930 = 2 \times 15 \times 31$
 $992 = 2 \times 16 \times 31$
 $\therefore \text{HCF} = 2 \times 31 = 62$
 Therefore, total number of barrel required = $13 + 15 + 16 = 44$

(66-70):

66. (5) I. $x^2 - 23x - 288 = 0$
 $\Rightarrow x^2 - 32x + 9x - 288 = 0$
 $\Rightarrow x(x - 32) + 9(x - 32) = 0$
 $\Rightarrow x = -9, 32$
 II. $y^2 + 2y - 224 = 0$
 $\Rightarrow y^2 + 16y - 14y - 224 = 0$
 $\Rightarrow y(y + 16) - 14(y + 16) = 0$
 $\Rightarrow y = -16, 14$
67. (5) I. $x^2 - 8x - 240 = 0$
 $x^2 - 20x + 12x + 240 = 0$
 $\Rightarrow x(x - 20) + 12(x - 20) = 0$
 $\Rightarrow x = -12, 20$
 II. $y^2 + 7y - 144 = 0$
 $\Rightarrow y^2 + 16y - 9y - 144 = 0$
 $\Rightarrow y(y + 16) - 9(y + 16) = 0$
 $\Rightarrow y = -16, 9$
68. (3) I. $7x^2 + 53x - 90 = 0$
 $\Rightarrow 7x^2 + 63x - 10x - 90 = 0$
 $\Rightarrow 7x(x + 9) - 10(x + 9) = 0$
 $\Rightarrow x = \frac{10}{7}, -9$
 II. $8y^2 - 61y + 78 = 0$
 $\Rightarrow 8y^2 - 48y - 13y + 78 = 0$
 $\Rightarrow 8y(y - 6) - 13(y - 6) = 0$

$$\Rightarrow y = \frac{13}{8}, 6$$

Clearly, $x < y$

69. (1) I. $2x^2 - 35x - 147 = 0$
 $\Rightarrow 2x^2 - 14x - 21x - 147 = 0$
 $\Rightarrow 2x(x - 7) - 21(x - 7) = 0$
 $\Rightarrow x = \frac{21}{2}, 7$

- II. $3y^2 + 40y + 117 = 0$
 $\Rightarrow 3y^2 + 27y + 13y + 117 = 0$
 $\Rightarrow 3y(y + 9) + 13(y + 9) = 0$

$$\Rightarrow y = -\frac{13}{3}, -9$$

Clearly, $x > y$

70. (4) I. $x^2 + 9x - 486 = 0$
 $\Rightarrow x^2 + 27x - 18x - 486 = 0$
 $\Rightarrow x(x + 27) - 18(x + 27) = 0$
 $\Rightarrow x = 18, -27$
 II. $y^2 - 40y + 396 = 0$
 $\Rightarrow y^2 - 22y - 18y + 396 = 0$
 $\Rightarrow y(y - 22) - 18(y - 22) = 0$
 $\Rightarrow y = 18, 22$

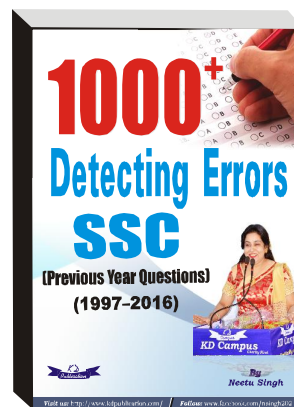
Clearly, $x \leq y$

ENGLISH LANGUAGE

(81-85):

81. (3) Change 'disrupt' with 'disrupted'.
 82. (4) Change 'continue' with 'continues'.
 83. (1) Change 'the' with 'a'.
 84. (3) Change 'out' with 'down'.
 85. (5) No error

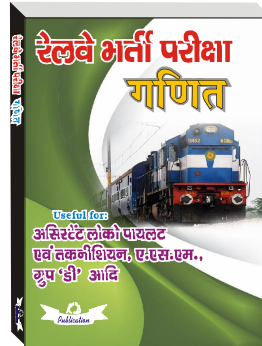
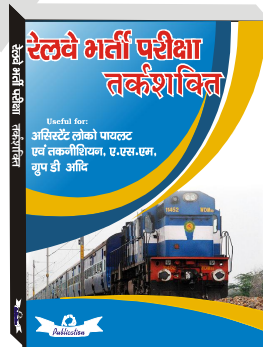
For all general competitive exams



VOCABULARIES

Word	Meaning in English	Meaning in Hindi
Incumbents	the holder of an office or post	पदग्राही
Undergo	experience or be subjected to (something, typically something unpleasant, painful, or arduous)	गुजरना
Resistant	offering resistance to something or someone	प्रतिरोधी
Reluctant	unwilling and hesitant; disinclined	अनिच्छुक
Disruption	disturbance or problems that interrupt an event, activity, or process	विघटन
Defunct	no longer existing or functioning	मृत
Averse	having a strong dislike of or opposition to something	प्रतिकूल
Enthusiastic	having or showing intense and eager enjoyment, interest, or approval	उत्साही
Clinch	confirm or settle (a contract or bargain)	कड़ी
Intended	planned or meant	इरादा
Penetrate	succeed in forcing a way into or through (a thing)	घुसना
Incited	encourage or stir up (violent or unlawful behavior)	उकसाया
Inflicted	cause (something unpleasant or painful) to be suffered by someone or something	प्रवृत्त
Endure	suffer (something painful or difficult) patiently	सहना
Recant	say that one no longer holds an opinion or belief, especially one considered heretical	अपने को वंचित करना

For all RRB competitive exams



SBI PO PHASE - I - 146 (ANSWER KEY)

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

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