

SBI PO PHASE - I - 148 (SOLUTION)

REASONING

(1-5) :

Floor	Person	Bank
8	X	HDFC
7	S	SBI
6	Z	IDBI
5	V	AXIS
4	T	SVC
3	Y	PNB
2	U	BOI
1	W	TJBS

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

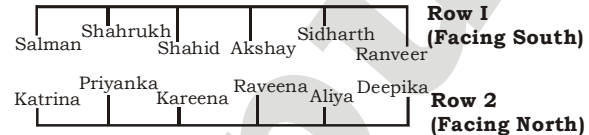
(6-10) :

From the given input and various steps of rearrangement it is evident that in the first step one number is rearranged and in the next step one word is rearranged. These two steps are continued alternately till all the numbers get arranged in ascending order and the words get arranged in reverse alphabetical order.

6. (2)
Input : 86 open shut door 31 49 always 45
Step I : 31 86 open shut door 49 always 45
Step II : 31 shut 86 open door 49 always 45
Step III : 31 shut 45 86 open door 49 always
Step IV : 31 shut 45 open 86 door 49 always
Step V : 31 shut 45 open 49 86 door always
Step VI : 31 shut 45 open 49 door 86 always
7. (4) It is not possible to determine the Input from any given step.
8. (2)
Step II : 18 win 71 34 now if victory 61
Step III : 18 win 34 71 now if victory 61
Step IV : 18 win 34 victory 71 now if 61
Step V : 18 win 34 victory 61 71 now if
Step VI : 18 win 34 victory 61 now 71 if
9. (5)
Input : where 47 59 12 are they going 39
Step I : 12 where 47 59 are they going 39
Step II : 12 where 39 47 59 are they going
Step III : 12 where 39 they 47 59 are going
Step IV : 12 where 39 they 47 going 59 are
10. (3)
Step II : 33 store 81 75 full of goods 52
Step III : 33 store 52 81 75 full of goods

- Step IV : 33 store 52 of 81 75 full goods
Step V : 33 store 52 of 75 81 full goods
Step VI : 33 store 52 of 75 goods 81 full

(11-15):

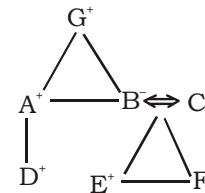


11. (2) 12. (1) 13. (3)
14. (1) 15. (4)

(16-20) :

- @ → ≥, # ->, % - =, \$ → ≤, × - <
16. (5) $K \leq L < M = N \leq O < P$
I. $P > K \rightarrow$ True II. $N > K \rightarrow$ True
17. (4) $A > B > C = D \geq E < F$
I. $A < F \rightarrow$ False II. $D \geq F \rightarrow$ False
18. (3) $A > B > C = D \geq E < F$
I. $A \geq F \rightarrow$ Doubt II. $A < F \rightarrow$ Doubt
19. (1) $U < V \leq W < X \geq Y = Z$
I. $X > U, \rightarrow$ True II. $Z \geq U \rightarrow$ False
20. (2) $K \leq L < M = N \leq O < P$
 $N = K \rightarrow$ False II. $P > K \rightarrow$ True

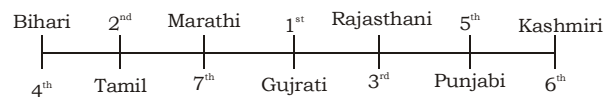
(21-22) :



Three fathers (G, A, C), two brothers (A and E), two sisters (B and F), one husband (C), one wife (B), two brothers-in-law (A and C), two daughters (B and F), three sons (A, D and E), three cousins (D, E and F), two nephews (D and E), one grandfather (G) and one niece (F)

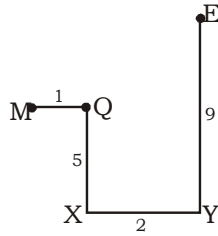
21. (2) 22. (1)

(23-28) :



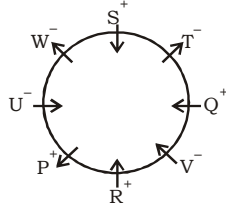
23. (4) 24. (3) 25. (2)
26. (3) 27. (5) 28. (5)

(29-30) :



26. (5) 3 km 27. (4)

(31-35) :



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

Maths

36. (2) $? = 2959.85 \div 16.001 - 34.99$
 $\approx 2960 \div 16 - 35$
 $= \frac{2960}{16} - 35 = 185 - 35 = 150$
37. (4) $? = (1702 \div 68) \times 136.05$
 $\approx \frac{1700}{68} \times 136 = 3400$
38. (5) $? = \frac{2950}{12.25} + 160 = 400.81 \approx 400$
39. (1) $? = 25.05\% \text{ of } 2845 + 14.95 \times 2400$
 $\approx \frac{25}{100} \times 2845 + 15 \times 2400$
 $= 711.25 + 36000$
 $= 36711.25 \approx 36700$
40. (5) $? \approx \frac{186 \times 271}{40} = 1260.15 \approx 1260$
41. (5) $\text{Reqd \%} = \left(\frac{17000 - 9000}{9000} \times 100 \right)\%$
 $= 88 \frac{8}{9}\%$
42. (4) $\text{Hero}_{2008} = 20000 \times \frac{81}{100} = 16200$
 $\text{Hercules}_{2006} = 12000 \times \frac{75}{100} = 9000$
 $\therefore \text{Reqd\%} = \left(\frac{16200}{9000} \times 100 \right)\% = 180\%$
43. (2) $\text{Unsold cycle} = 15000 \times 0.36 + 12000 \times 0.25 + 15000 \times 0.28 + 18200 \times 0.40 + 15000 \times 0.16 + 18000 \times 0.08$

$$= 5400 + 3000 + 4200 + 7280 + 2400 + 1440$$

$$= 23720$$

44. (2) $\text{Hercules}_{2007} = \left(\frac{15000 - 12000}{12000} \times 100 \right)\%$
 $= 25\%$

$$\text{Hercules}_{2008} = \left(\frac{18200 - 15000}{15000} \times 100 \right)\%$$

$$= 21.23\%$$

$$\text{Hercules}_{2010} = \left(\frac{18000 - 15000}{15000} \times 100 \right)\%$$

$$= 20\%$$

45. (3) Difference between sold cycles (Hero - Hercules) in
 2005 $\rightarrow 9600 - 8750 = 850$
 2006 $\rightarrow 9000 - 5940 = 3060$
 2007 $\rightarrow 13260 - 10800 = 2460$
 2008 $\rightarrow 16200 - 10920 = 5280$
 2009 $\rightarrow 12600 - 9100 = 3500$
 2010 $\rightarrow 16560 - 12480 = 4080$

46. (4) The given number series is based on the following pattern.

$$93 + 2 \text{ (prime number)} = 95$$

$$95 + 3 = 98 \neq 99$$

$$98 + 5 = \mathbf{103}$$

$$103 + 7 = 110$$

$$110 + 11 = 121$$

$$121 + 13 = 134$$

Hence, 103 will replace the question mark

47. (5) The given number series is based on the following pattern.

$$8 \times 1.5 = 12$$

$$12 \times 1.5 = 18$$

$$18 \times 1.5 = 27 \neq 26$$

$$27 \times 1.5 = 40.5$$

$$40.5 \times 1.5 = 60.75$$

$$\therefore ? = 60.75 \times 1.5 = \mathbf{91.125}$$

Hence, 91.125 will replace the question mark.

48. (5) The given number series is based on the following pattern.

$$4 + 7 = 11$$

$$11 + 7 = 18$$

$$18 + 11 = 29 \neq 28$$

$$\therefore ? = 29 + 18 = \mathbf{47}$$

Hence, 47 will replace the question mark.

49. (1) The given number series is based on the following pattern.

$$3 \times 2 + 2^2 = 10$$

$$10 \times 3 + 3^2 = \mathbf{39}$$

$$39 \times 4 + 4^2 = 172$$

$$172 \times 5 + 5^2 = 885 \neq 886$$

$$885 \times 6 + 6^2 = 5346$$

Hence, 39 will replace the question mark.

50. (3) The given number series is based on the following pattern.

$$\begin{aligned} 15 \times 1 + 1 \times 7 &= 22 \\ 22 \times 2 + 2 \times 6 &= 56 \neq 57 \\ 56 \times 3 + 3 \times 5 &= 183 \\ 183 \times 4 + 4 \times 4 &= \mathbf{748} \\ 748 \times 5 + 5 \times 3 &= 3755 \\ 3755 \times 6 + 6 \times 2 &= 22542 \end{aligned}$$

Hence, 748 will replace the question mark.

51. (2) According to the question,

$$\therefore M_1 \times D_1 \times T_1 \times W_2 = M_2 \times D_2 \times T_2 \times W_1$$

$$36 \times 6 \times 10 \times 1200 = 10 \times D_2 \times 8 \times 1200$$

$$\therefore D_2 = \frac{36 \times 6 \times 10 \times 1200}{10 \times 8 \times 1200} = 27 \text{ days}$$

52. (4) If the required distance be x km, then

$$\frac{x}{5} - \frac{x}{6} = \frac{30-5}{60}$$

$$\Rightarrow \frac{6x-5x}{30} = \frac{25}{60} = \frac{5}{12}$$

$$\Rightarrow x = \frac{30 \times 5}{12} = 12.5 \text{ km}$$

53. (1) Let the amount given at 4% per annum be ₹ x .

\therefore Amount given at 5% per annum = ₹ $(1200 - x)$

$$\therefore \frac{x \times 4 \times 2}{100} + \frac{(1200-x) \times 5 \times 2}{100} = 110$$

$$\Rightarrow \frac{-2x+12000}{100} = 110$$

$$\Rightarrow x = ₹ 500$$

Aslo, $(1200 - x) = 1200 - 500 = ₹ 700$

54. (4) Time taken by Sunil = x minutes.

Time taken by Anil = $(x + 10)$ minutes.

$$\therefore \frac{2}{3} = \frac{x}{x+10}$$

$$\therefore 2x + 20 = 3x$$

$$\therefore x = 20 \text{ minutes}$$

\therefore Time taken by Anil = 30 minutes.

\therefore Time taken by Anil when he doubles his

$$\text{speed} = \frac{30}{2} = 15 \text{ minutes}$$

55. (5) Let the original value of fridge be ₹ x .

$$\text{Then, Cost price} = ₹ \frac{15}{16} x$$

$$\text{Selling price} = \frac{110}{100} \times x = ₹ \frac{110x}{100}$$

$$\therefore \text{Gain per cent} = \left(\frac{\frac{110}{100}x - \frac{15}{16}x}{\frac{15}{16}x} \times 100 \right) \%$$

$$= 17.33\%$$

(56-60):

56. (1) Total population of City L

$$7000000 \times \frac{21}{100} = 1470000$$

$$\text{Female}_L = 1470000 \times \frac{48.9}{100} = 718830$$

57. (3) $\text{Total}_M = 7000000 \times \frac{10.6}{100} = 742000$

\therefore Males are 53.2%,

So females = $100 - 53.2 = 46.8\%$

\therefore Difference = $53.2\% - 46.8\% = 6.4\%$

$$\therefore \text{Reqd answer} = 742000 \times \frac{6.4}{100} = 47488$$

58. (4) $\text{Female}_Q = 1526000 \times \frac{(100-49.2)}{100}$

$$= 775208$$

$$\text{Female}_P = \frac{1526000}{21.8} \times 100 \times \frac{7.5}{100} \times$$

$$\frac{(100-47.9)}{100}$$

$$= 700 \times 7.5 \times 52.1 = 273525$$

$$\therefore \text{Reqd}\% = \left(\frac{775208}{273525} \times 100 \right) \%$$

$$= 283.41\% \approx 283.5\%$$

59. (2) Total males = $\frac{1526000 \times 100}{21.8 \times 100 \times 100} \times \{21 \times$

$$51.1 + 10.6 \times 53.2 + 23.7 \times 52.9 + 15.4 \times$$

$$53.8 + 7.5 \times 47.9 + 21.8 \times 49.2\}$$

$$= 700 \times \{1073.1 + 563.92 + 1253.73 +$$

$$828.52 + 359.25 + 1072.56\}$$

$$= 700 \times 5151.08 = 3605756$$

60. (3) Total population in all six cities = 7000000

Total females in all six cities = 7000000 - 3605756 = 3394244

$$\therefore \text{Reqd}\% = \left(\frac{3394244}{7000000} \times 100 \right) \%$$

$$= 48.489\% \approx 48.5\%$$

61. (3) Let the unit's digit be y and ten's digit be x

$$\therefore \text{Number} = 10x + y$$

$$\therefore \text{New number after interchange} = 10y + x$$

$$\text{As given, } 10y + x - 10x - y = 18$$

$$\Rightarrow 9(y - x) = 18$$

$$\Rightarrow y - x = 2 \dots \text{(i)}$$

$$\text{Again, } x + y = 8 \dots \text{(ii)}$$

$$\text{From (i) and (ii)}$$

$$2y = 10$$

$$\Rightarrow y = 5$$

$$\therefore x = 3 \text{ [From (i)]}$$

$$\therefore \text{Required number} = 10x + y = 10 \times 3 + 5 = 35$$

62. (4) Let original fraction be $\frac{x}{y}$.
According to the question,
- $$\frac{x \times \frac{450}{100}}{y \times \frac{400}{100}} = \frac{9}{22}$$
- $$\Rightarrow \frac{x \times \frac{9}{2}}{y \times 4} = \frac{9}{22}$$
- $$\Rightarrow \frac{x}{y} = \frac{9 \times 8}{9 \times 22} = \frac{4}{11}$$
63. (2) (i) choose four questions from first five questions
 $= {}^5C_4 \times {}^8C_6$
 $= 5 \times 28 = 140$
- (ii) choose five questions from first five questions
 $= {}^5C_5 \times {}^8C_5$
 $= 1 \times 56 = 56$
 Total number of ways = $140 + 56 = 196$
64. (4) \therefore C.P. of 12 eggs = ₹ 3.75
 \therefore C.P. of 1600 eggs
 $= \frac{3.75 \times 1600}{12} = ₹ 500$
- S.P. of 900 eggs = $\frac{1}{2} \times 900 = ₹ 450$
- S.P. of remaining 700 eggs = $\frac{2}{5} \times 700$
 $= ₹ 280$
 Total S.P. = $450 + 280 = ₹ 730$
 Gain = $730 - 500 = ₹ 230$
- \therefore Gain per cent = $\frac{230}{500} \times 100 = 46\%$
65. (5) According to the question, Distance covered by Sonu in 8 hrs.
 $= 6 \times 8 = 48$ km
 \therefore Distance covered by Monu in 8 hrs.
 $= (114 - 48)$ km = 66 km
 \therefore Speed of Monu = $\frac{66}{8}$ kmph = $8\frac{1}{4}$ kmph

(66-70):

66. (5) $20x^2 - x - 12 = 0 \Rightarrow x = \frac{+16}{20}, \frac{-15}{20}$
- $$x = +\frac{3}{5}, -\frac{3}{4}$$
- $$20y^2 + 27y + 9 = 0$$
- $$y = \frac{-15}{20} - \frac{12}{20}$$

- $$= -\frac{3}{4} - \frac{3}{5}$$
67. (4) $x^2 - 218 = 106$
 $y^2 - 37y + 342 = 0$
 $x^2 = 324$
 $x = 18, -18$
 $y = +19, +18$
 $y \geq x$
68. (5) $\frac{7}{\sqrt{x}} + \frac{5}{\sqrt{x}} = \sqrt{x}$
 (i) $12 = x$
 (ii) $y^2 - \frac{(12)^2}{\sqrt{y}} = 0$
 $y^{\frac{5}{2}} = (12)^{\frac{5}{2}}, y = 12$
 Hence $x = y$
69. (3)
 (i) $\sqrt{361x} + \sqrt{16} = 0$
 $19x + 4 = 0$
 $x = -\frac{4}{19}$
 (ii) $\sqrt{441y} + 4 = 0$
 $21\sqrt{y} + 4 = 0$
 $\sqrt{y} = -\frac{4}{21}$
 $y = -\frac{16}{441}$
 Hence $x < y$
70. (1) (i) $\frac{15}{\sqrt{x}} - \frac{2}{\sqrt{x}} = 6\sqrt{x}$
 $15 - 2 = 6x$
 $x = \frac{13}{6}$
- (ii) $\frac{\sqrt{y}}{4} + \frac{7\sqrt{y}}{12} = \frac{1}{\sqrt{y}}$
 $\frac{3\sqrt{y} + 7\sqrt{y}}{12} = \frac{1}{\sqrt{y}}$
 $10y = 12$
 $y = \frac{12}{10} = \frac{6}{5}$
 Hence $x > y$

ENGLISH LANGUAGE

(86-90):

86. (1) It should be 'sooner' in place of 'soon', because the right combination is 'The sooner the better'.
87. (3) Replace 'devising' with 'to devise'.
88. (5)
89. (1) Delete 'for'.
90. (3) The right phrase is 'hand in hand', so replace 'to' with 'in'.

VOCABULARIES

Words	Meaning in English	Meaning in Hindi
Thawing	(of ice, snow, or another frozen substance, such as food) become liquid or soft as a result of warming.	विगलन
Shrunk	To become smaller in amount, size, or value	संकुचित होना, घाट जाना
Widespread	Existing or happening over a large area or among many people.	व्यापक
Disruption	To interrupt the normal progress or activity of (something)	विघ्न
Steadily	Gradually and in an even and regular way	निरंतर
Planetary	Relating to a planet or planets	भूमण्डलीय
Scorching	Very hot	झुलसानेवाला
Catastrophic	(of a natural event) causing a lot of damage and suffering	विनाशकारी
Flora and fauna	Plants and animals of a place	वनस्पति और जीव
Desolating	(of a place) empty and without people, making you feel sad or frightened.	वीरान, निर्जन
Imminent	(especially of something unpleasant) likely to happen very soon.	निकटस्थ
Overhaul	An examination of a machine or system, including doing repairs on it or making changes to it.	निरिक्षण करना
Receding	To grow less or smaller	कम होना
Nurture	The care and attention given to someone or something that is growing or developing.	विकसित करना
Congregation	A group of people who regularly attend a particular place of worship.	धार्मिक सभा, समागम
Brethren	Used to talk to people in church or to talk about the members of a male religious group.	भाई
Visionary	Having or showing clear ideas about what should happen or be done in the future.	काल्पनिक
Discerning	Able to show good judgement about the quality of somebody/something.	विवेकी
Exodus	A situation in which many people leave a place at the same time.	निर्गमन, कूच
Intricate	Having a lot of different parts and small details that fit together.	पेचीदा, गूढ़

KD
Campus

KD Campus

2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009

SBI PO PHASE - I - 148 (ANSWER KEY)

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