

## SBI PO PHASE-I MOCK TEST-51 (SOLUTION)

### REASONING

1. (1) **Given statement :**  
 $M \geq O \geq L \geq T = E \geq D$   
 Thus,  $O \geq D$  or  $D \leq O$  is true. Hence I is true.  
 Again,  $M \geq E$  is true. Hence II is true.
2. (5) **Given statement :**  
 $B < C = D \leq X \leq Y < Z$   
 Thus,  $B < X$  is true. Hence I is true.  
 Again,  $C < Z$  or  $Z > C$  is true. Hence conclusion II is not true.
3. (5) **Given statement :**  
 $R < O \leq L \leq E$  ... (i)  
 $G = E \geq S$  ... (ii)  
 $P \leq S$  ... (iii)  
 Combining (i), (ii) and (iii), we get  
 $R < O \leq L \leq E = G \geq S \geq P$   
 Thus, we can't compare R and P. Hence I ( $R > P$ ) is not true. Again,  $E \geq P$  or  $P \leq E$  true. Hence II is true.
4. (3) **Given statement :**  
 $M \geq O \geq L \geq T = E \geq D$   
 Thus,  $O \geq T$  or  $T \leq O$  is true.  
 Hence either  $T < O$  is true or  $T = O$  is true. Thus, conclusion I and II make a complementary pair.
5. (1) **Given statement :**  
 $S \leq P \leq A = R > E \leq D$   
 Thus, we can't compare A and D. Hence I ( $A > D$ ) is not true. Again, we can't compare S and E. Hence II ( $S \leq E$ ) is not true.
6. (2) **Given statement :**  
 $R < O \leq L \leq E = G \geq S \geq P$   
 Thus,  $O \leq G$  is true. Hence either  $O < G$  or  $O = G$  is true. So, conclusion I and II make a complementary pair.
7. (3) Total number of students =  $25 + 9 = 24$
8. (3)

**(9-14) :**



9. (1)            10. (2)            11. (2)
12. (5)           13. (2)            14. (1)

**(15-18) :**

E is the daughter of A and F is the mother of E. So, A is the father of E and hence the husband of F. Now D is the daughter of F. So, D and E are the daughters of A and F. Also, A is the son of C. Now, only B remains. Thus, B and C are the parents of A.

15. (4) The sex of B and C cannot be determined.
16. (5) Clearly, A and F are the parents of the children D and E.
17. (2) Clearly, B and C are the parents of the couple.
18. (3) Clearly, the females in the family are : either B or C, F, D and E.

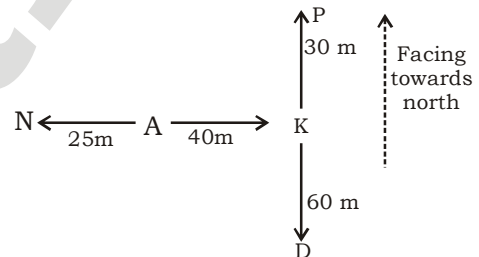
**(19 - 23) :**

Boy	Girl	City	Bike
A	P/Q	Jaipur	Bullet/Passion
D	Q/P	Jaipur	Passion/Bullet
F	R	Haridwar	Bullet
C	U	Mumbai	Karizma
B	S	Delhi	Karizma
E	T	Shimla	Discover

19. (1)            20. (4)            21. (3)
22. (2)           23. (3)

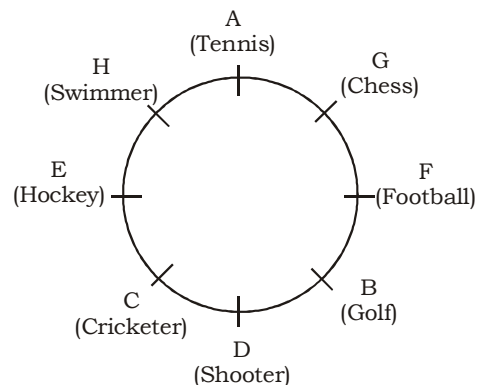
**(24-25) :**

Clearly, the arrangement of boys is as shown.



24. (5) Clearly, Atul is to the left of Kunal and Prashant is to the north-east of Atul.
25. (3) Required distance =  $NA + AK + KD + DP$   
 $(25 + 40 + 60 + 90) \text{ m} = 215 \text{ m}.$

**(26-30) :**



26. (3)
27. (4)
28. (2) Golfer B and Swimmer H sit opposite to each other.
29. (2)
30. (3) B and F, when counted clockwise.

(31-35) :

Person	Cities	Specialisation
M	Jaipur	Acting
N	Bangalore	IT
O	Lucknow	Designing
P	Delhi	Science
Q	Chennai	Choreography
R	Mumbai	Literature
S	Kolkata	Economics
T	Pune	Marketing

31. (3)                      32. (5)                      33. (2)  
34. (3)                      35. (5)

**MATHS**

36. (3) »  $40 \cdot \frac{4330}{100} + 59 \cdot \frac{5000}{100}$   
=  $1732 + 2950 = 4682$  » 4700
37. (5) ?  $\approx 43931 \div 2111 \times 401$   
=  $20.81 \times 401$   
=  $8344.81 \approx 8350$
38. (2)  $\sqrt{6354} \cdot 34.993 = 80 \cdot 35$  » 2800
39. (5)  $17 + 349$  » ?  $\div 21$   
or,  $366 \times 21 = ?$   
or, ? =  $7686 \approx 7680$
40. (3) »  $60 \div 12 \times 6 = 30$
41. (3) Required ratio =  $20 : (30 + 25)$   
=  $20 : 55$   
=  $4 : 11$
42. (4) In school P =  $(30 - 20) = 10$  thousand  
In school Q =  $(25 - 15) = 10$  thousand  
In school R =  $(22.5 - 10) = 12.5$  thousand  
Hence, only school P and School Q is required answer.
43. (1) In 2006, number of girls  
=  $(15+20 + 27.5) \times 1000 = 62500$
- Required average =  $\frac{62500}{3} = 20833.33$   
 $\approx 20800$
44. (3) Total number of girls enrolled in the three school in 2004 =  $(10 + 15 + 20)$   
= 45 thousand
- Required % =  $\frac{45}{20} \times 100 = 225\%$
45. (4) Total number of girls in  
2004 = 45 thousand  
2005 = 62.5 thousand

- 2006 = 62.5 thousand  
2007 = 75 thousand  
2008 = 77.5 thousand
- Required answer is 2007
46. (5) I.  $\Rightarrow p^2 + 3p + 2p + 6 = 0$   
 $\Rightarrow p(p + 3) + 2(p + 3) = 0$   
 $\Rightarrow (p + 3)(p + 2) = 0$   
 $\Rightarrow p = -2$  or  $-3$
- II.  $\Rightarrow q^2 + q + 2q + 2 = 0$   
 $\Rightarrow q(q + 1) + 2(q + 1) = 0$   
 $\Rightarrow (q + 1)(q + 2) = 0$   
 $\Rightarrow q = -1$  or  $-2$   
Obviously  $p \leq q$
47. (4) I.  $\Rightarrow p = \pm 2$
- II.  $\Rightarrow q^2 + 2q + 2q + 4 = 0$   
 $\Rightarrow q(q + 2) + 2(q + 2) = 0$   
 $\Rightarrow (q + 2)(q + 2) = 0$   
 $\Rightarrow q = -2$   
Obviously,  $p \geq q$
48. (2) I.  $\Rightarrow p^2 + p - 56 = 0$   
 $\Rightarrow p^2 + 8p - 7p - 56 = 0$   
 $\Rightarrow p(p + 8) - 7(p + 8) = 0$   
 $\Rightarrow (p + 8)(p - 7) = 0$   
 $\Rightarrow p = 7$  or  $-8$
- II.  $\Rightarrow q^2 - 8q - 9q + 72 = 0$   
 $\Rightarrow q(q - 8) - 9(q - 8) = 0$   
 $\Rightarrow (q - 8)(q - 9) = 0$   
 $\Rightarrow q = 8$  or  $9$   
Obviously,  $p < q$
49. (1) We have,  
 $3p + 2q = 58$  ... (i)  
 $4p + 4q = 92$   
 $\Rightarrow 2p + 2q = 46$  ... (ii)  
By equation (i) - (ii) we get  
 $p = 12$   
From equation (i),  $3 \times 12 + 2q = 58$   
 $\Rightarrow 2q = 58 - 36 = 22$   
 $\Rightarrow q = 11$   
Hence,  $p > q$
50. (2) I.  $\Rightarrow 3p^2 + 15p + 2p + 10 = 0$   
 $\Rightarrow 3p(p + 5) + 2(p + 5) = 0$   
 $\Rightarrow (p + 5)(3p + 2) = 0$   
 $\Rightarrow p = -5$  or  $-\frac{2}{3}$
- II.  $\Rightarrow 10q^2 + 5q + 4q + 2 = 0$   
 $\Rightarrow 5q(2q + 1) + 2(2q + 1) = 0$   
 $\Rightarrow (2q + 1)(5q + 2) = 0$   
 $\Rightarrow q = -\frac{1}{2}$  or  $-\frac{2}{5}$   
Obviously,  $p < q$

51. (3) The series is as follows :  
 $4 \times 1 + 2 = 4 + 2 = 6$   
 $6 \times 2 + 3 = 12 + 3 = 15 \neq 18$   
 $15 \times 3 + 4 = 45 + 4 = 49$   
 $49 \times 4 + 5 = 196 + 5 = 201$   
 $201 \times 5 + 6 = 1005 + 6 = 1011$
52. (5) The series is as follows :  
 $48 \times \frac{3}{2} = 72; 72 \times \frac{3}{2} = 108;$   
 $108 \times \frac{3}{2} = 162; 162 \times \frac{3}{2} = 243$  and  
 $243 \times \frac{3}{2} = 364.5 \neq 366$
53. (1) The series is as follows :  
 $2 \times 6 + 7 \times 6 = 12 + 42 = 54$   
 $54 \times 5 + 6 \times 5 = 270 + 30 = 300$   
 $300 \times 4 + 5 \times 4 = 1200 + 20 = 1220$   
 $1220 \times 3 + 4 \times 3 = 3660 + 12 = 3672 \neq 3674$   
 $3672 \times 2 + 3 \times 2 = 7344 + 6 = 7350$
54. (2)  $2^3 = 8; 3^3 = 27;$   
 $4^3 = 64; 5^3 = 125;$   
 $6^3 = 216 \neq 218$  and  
 $7^3 = 343$
55. (4)  $19 + 7^2 = 19 + 49 = 68$   
 $68 + 6^2 = 68 + 36 = 104 \neq 102$   
 $104 + 5^2 = 104 + 25 = 129$   
 $129 + 4^2 = 129 + 16 = 145$   
 $145 + 3^2 = 145 + 9 = 154$
56. (3) The word RECTITUDE has 9 letters in which RCTTD are consonants and EIUE are vowels and T and E come twice. We have to arrange RCTTD (EEIU)  
 $\therefore$  Number of arrangements  
 $= \frac{4!}{2!} \times \frac{6!}{2!} = 4 \times 3 \times 6 \times 5 \times 4 \times 3 = 4320$
57. (2) Let the share of Lucky be ₹  $x$   
 $\therefore$  Then, the share of Javed is ₹  $(30600 - x)$   
 $x \times \left(1 + \frac{4}{100}\right)^3 = (30600 - x) \left(1 + \frac{4}{100}\right)^2$   
 $\Rightarrow x \times \frac{104}{100} = 30600 - x$   
 $\Rightarrow \frac{204}{100} x = 30600$   
 $\Rightarrow x = \frac{30600 \times 100}{204} = ₹ 15000$
58. (4) Total amount spent  
 $= \left(\frac{591}{3} + \frac{45}{60} \times 780\right)$  paise  
 $= 197 + 585 = 782$  Paise = ₹ 7.82
59. (1)  $3600 = 4 \times 9 \times 100 = 2^2 \times 3^2 \times 5^2 \times 2^2 = 2^4 \times 3^2 \times 5^2$   
 $3240 = 810 \times 4 = 3^2 \times 3^2 \times 2 \times 5 \times 2^2 = 3^4 \times 2^3 \times 5$   
 Third number =  $2^2 \times 3^5 \times 7^2$
60. (2) Marks obtained by Priti in subject B  
 $= \frac{150 \times 56}{100} = 84$   
 Total marks obtained by Priti in all subjects =  $\frac{450 \times 54}{100} = 243$   
 $\therefore$  Marks obtained in subject C =  $243 - 73 - 84 = 86$
61. (1) Total students in class V  
 $= \frac{72}{360} \times 1200 = 240$   
 Girls =  $\frac{240}{5} \times 2 = 96$   
 Total students in class VI  
 $= \frac{43.2}{360} \times 1200 = 144$   
 Girls =  $\frac{144}{4} \times 1 = 36$   
 Similarly, VII<sub>girls</sub> = 72, VIII<sub>girls</sub> = 84, IX<sub>girls</sub> = 108, X<sub>girls</sub> = 96  
 Average =  $\frac{96 + 36 + 72 + 84 + 108 + 96}{6} = \frac{492}{6} = 82$
62. (5) Total girls = 492 (as above)  
 Total boys =  $1200 - 492 = 708$   
 Required different =  $708 - 492 = 216$
63. (3) Total<sub>VIII</sub> =  $\frac{54}{360} \times 1200 = 180$   
 Boys =  $\frac{180}{15} \times 8 = 96$   
 Total<sub>X</sub> =  $\frac{57.6}{360} \times 1200 = 192$   
 Boys =  $\frac{192}{2} \times 1 = 96$
64. (3) Total<sub>V</sub> =  $\frac{72}{360} \times 1200 = 240$   
 Boys<sub>V</sub> =  $\frac{240}{5} \times 3 = 144$ , Girls<sub>V</sub> = 96  
 and different = 48  
 Total<sub>VII</sub> =  $\frac{57.6}{360} \times 1200 = 192$   
 Boys<sub>VII</sub> =  $\frac{192}{8} \times 5 = 120$ , Girls<sub>VII</sub> = 72  
 and different = 48

Required % =  $\frac{48}{48} \times 100 = 100\%$

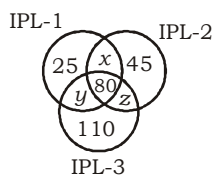
65. (2) Boys<sub>v</sub> = 108

Girls<sub>x</sub> = 96

Required % =  $\frac{108 - 96}{96} \times 100 = \frac{1200}{96} \%$

= 12.5%

**(66 - 70) :**



$x + y = (180 - 105) = 75 \quad \dots(i)$

$x + z = (230 - 125) = 105 \quad \dots(ii)$

$y + z = (290 - 190) = 100 \quad \dots(iii)$

adding (i) + (ii) + (iii), we get

$2(x + y + z) = 280$

$x + y + z = 140$

$x = 40, y = 35$  and  $z = 65$

66. (4) Required number of players  
=  $25 + 45 + 40 = 110$

Required number of players  
=  $45 + 65 + 110 = 220$

67. (4) Required number of players  
=  $45 + 65 + 110 = 220$

Required % =  $\frac{220}{400} \times 100 = 55\%$

68. (5) Number of players who played at least two IPL =  $40 + 35 + 65 + 80 = 220$

Required % =  $\frac{220}{400} \times 100 = 55\%$

69. (4) Only IPL 1 = 25, only IPL 2 = 45

Total = 70

Required % =  $\frac{70}{80} \times 100 = 87.5\%$

70. (2) At least one IPL = 400

At most one IPL =  $25 + 45 + 110 = 180$

Required less % =  $\frac{400 - 180}{400} \times 100$

=  $\frac{22000}{400} = 55\%$  less

**ENGLISH LANGUAGE**

**(81-85) : CFABDE**

81. (1)                      82. (3)                      83. (1)

84. (5)                      85. (2)

96. (5) No error

97. (4) Replace 'nice' by 'nicer'.

98. (4) Replace 'another' by 'other'.

99. (2) Replace 'a' by 'an'.

100. (2) Replace it with 'on you staying here' or 'on that you stay'.

## VOCABULARIES

<b>Word</b>	<b>Meaning in English</b>	<b>Meaning in Hindi</b>
Latent	(of a quality or state) existing but not yet developed	गुप्त, अन्तर्निहित
At the helm of affairs	In the position of being in control of something	किसी के नियंत्रण में होना
Foremost	Most prominent in rank, importance, or position	अग्रणी, सर्वोपरि
Dazzling	Extremely bright	बहुत चमकीला
Sabotaging	Deliberately destroy, damage, or obstruct (something), especially for political or military advantage	राजनैतिक लाभ के लिए नुकसान करना
Subtle	(especially of a change or distinction) so delicate or precise as to be difficult to analyze or describe	गूढ़, चालाक
Come in handy	To be useful	मददगार होना
Veil	Something that stops you from learning the truth about a situation	नकाब, परदा
By and large	Generally, but not completely	कुल मिलाकर
Adaptability	The quality of being able to change or be changed in order to deal successfully with new situations	अनुकूलनशीलता
Vicinity	The area near or surrounding a particular place	पड़ोस
Chronic	Persisting for a long time or constantly recurring	चिरकालिक, स्थायी
Reville	Criticize in an abusive or angrily insulting manner	भला-बुरा कहना
Engrossed	Absorb all the attention or interest of	तल्लीन
Ingrained	Firmly fixed or established; difficult to change	दीर्घस्थायी, अंतर्निहित
Mired	stucked deep in a difficult or unpleasant situation	जड़ तक फंसा हुआ
Concurrence	Agreement	सहमति
Dissemination	The act of spreading information or knowledge so that it reaches many people	सूचना फैलाना
Congruence	Agreement or harmony; compatibility	अनुरूपता
Precipitate	Done, made, or acting suddenly or without careful consideration	अप्रत्याशित रूप से करना

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**SBI PO PHASE - I MOCK TEST - 51 (ANSWER KEY)**

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

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

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