

SBI PO PHASE-I - 85 (SOLUTION)

REASONING

(1-5) :

Teachers	School	Rest Day
Xavier	St.Francis	Saturday
Lewis	DPS	Thursday
Rexon	St.Thomas	Friday
Quinton	GyanNiketan	Tuesday
David	BalNiketan	Sunday
Paes	St.Mary	Monday
Thomas	BalBhawan	Wednesday

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

(6-10) :

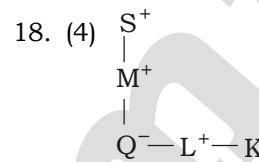
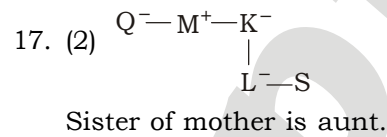
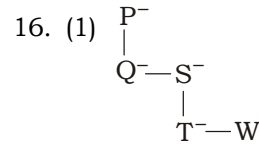
Time	Doctors
9:00	Thomas
9:55	Hillary
10:50	Gotham
11:45	Alex
12:40	Robin
2:00	Xavier
2:55	David

6. (2) 7. (3) 8. (2)
9. (1) 10. (2)

(11-15) :

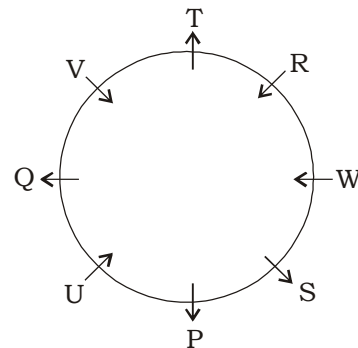
11. (1) $T \geq Q > N \geq S = P > K > R$
I. $T > R \rightarrow$ True
II. $K \leq N \rightarrow$ False
If only conclusion I is true.
12. (4) $Z < U \geq M$
I. $Z > M \rightarrow$ False
 $D > U = L \leq G$
II. $D > G \rightarrow$ False
If neither conclusion I nor II is true.
13. (4) $I > P \geq L > T = N \geq S$
I. $J \geq N \rightarrow$ False
II. $S \leq P \rightarrow$ False
If neither conclusion I nor II is true.
14. (1) $A \geq B \leq C = D < L \geq E$
I. $L > B \rightarrow$ True
II. $A \geq D \rightarrow$ False
If only conclusion I is true.
15. (2) $L < M = N > H \geq I > J = K$
I. $J > L \rightarrow$ False
II. $K < N \rightarrow$ True
If only conclusion II is true.

(16-20) :



Here, gender of K is not known. Therefore, relation between K and S cannot be established.

(19-23)



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

(24-28) :

Company	Floor	Person
Titan	7	Shelly
Walmart	6	Alex
Puma	5	Richa
Nike	4	Veena
Reebok	3	David
Liberty	2	Nishant
Sonata	1	Saurav

24. (2) 25. (3) 26. (1)
27. (3) 28. (4)
(29-33)
29. (5) 30. (4) 31. (2)
32. (1) 33. (4)

(34-35) :

$$F > B > A > D > C > E$$

$$\begin{array}{ccc} \downarrow & \downarrow & \downarrow \\ 18 \text{ pens} & 13 \text{ pens} & 7 \text{ pens} \end{array}$$

34. (4)

35. (4)

MATHS

(36-40) :

36. (1) $? \approx (41)^2 + (8)^2 - (22)^2$
 $= 1681 + 64 - 484 = 1261 \approx 1280$

37. (3) $\frac{600 \times 40}{100} - 250 \approx ? - \frac{900 \times 80}{100}$
 $\Rightarrow 240 - 250 = ? - 720$
 $\Rightarrow ? = 720 + 240 - 250 = 710 \approx 700$

38. (2) $52000 \div 60 \times 30 = ? \times 40$

$$\Rightarrow \frac{52000}{60} \times 30 \approx ? \times 40$$

$$\Rightarrow 26000 = ? \times 40$$

$$\therefore ? = \frac{26000}{40} = 650 \approx 600$$

39. (3) $? = \frac{701}{52} \times \frac{699}{11} \times \frac{112}{107}$
 $\approx \frac{700}{50} \times \frac{700}{11} \times \frac{110}{100} = 980 \approx 900$

40. (4) $? = \frac{\sqrt{6378} \times \sqrt{3330}}{\sqrt{360}}$

$$\approx \frac{80 \times 58}{19} = 244.21 \approx 250$$

(41-45) :

41. (3) Percentage of student who success out of the students joined in

$$2010 = \left(\frac{5700 \times 18}{8550 \times 22} \times 100 \right) \% = 54.54\%$$

$$2011 = \left(\frac{5700 \times 17}{8550 \times 15} \times 100 \right) \% = 75.55\%$$

$$2015 = \left(\frac{5700 \times 15}{8550 \times 12} \times 100 \right) \% = 83.33\%$$

$$2016 = \left(\frac{5700 \times 12}{8550 \times 16} \times 100 \right) \% = 50\%$$

\therefore Required answer is 2015.

42. (1) Required % = $\left(\frac{5700 \times 9}{8550 \times 8} \times 100 \right) \% = 75\%$

43. (4) No. of students successful in the year

$$2016 = 5700 \times \frac{13}{100} = 741$$

$$= 8550 \times \frac{10}{100} = 855$$

\therefore Required ratio = 741 : 855 = 247 : 285

44. (1) Total no. of students successful in the year 2011 and 2012 together

$$= \frac{5700}{100} \times (17+13) = \frac{5700}{100} \times 30 = 1710$$

Total no. of students joined in the year 2011 and 2012 together

$$= \frac{8550}{100} \times (15 + 10)$$

$$= \frac{8550}{100} \times 25 = 2137.5$$

$$\therefore \text{Required \%} = \left(\frac{1710}{2137.5} \times 100 \right) \% = 80\%$$

45. (2) Total no. of students successful in the year 2010 and 2013 together

$$= \frac{5700}{100} \times (18+16) = \frac{5700}{100} \times 34 = 1938$$

Total no. of students joined in the year 2012 and 2014 together

$$= \frac{8550}{100} \times (10+8) = \frac{8550}{100} \times 18 = 1539$$

\therefore Required difference = 1938 - 1539 = 399

46. (3) The pattern is :

$$576 - 224 = 352$$

$$752 - 576 = 176$$

$$840 - 752 = 88$$

$$884 - 840 = 44$$

$\therefore ? = 884 + 22 = 906$

47. (4) The pattern is :

$$55 + 11.15 = 66.15$$

$$66.15 + 2 \times 11.15 = 88.45$$

$$88.45 + 3 \times 11.15 = 121.9$$

$$121.9 + 4 \times 11.15 = 166.5$$

$$166.5 + 5 \times 11.15$$

$$= 166.5 + 55.75 = \mathbf{222.25}$$

48. (5) The pattern is :

$$36 + 13 = 49$$

$$49 + 2 \times 13 = 75$$

$$75 + 13 = 88$$

$$88 + 2 \times 13 = 114$$

$$114 + 13 = \mathbf{127}$$

49. (2) The pattern is :

$$3 + 4 \times (2)^0 = 7$$

$$7 + 11 = 18$$

$$18 + 4 \times (2)^1 = 26$$

$$26 + 11 = \mathbf{37}$$

$$37 + 4 \times (2)^2 = 53$$

$$53 + 11 = 64$$

$$64 + 4 \times (2)^3 = 96$$

50. (3) The pattern is :
 $1.7 + 1.5 = 3.2$
 $3.2 - 0.5 = 2.7$
 $2.7 + 1.5 = 4.2$
 $4.2 - 0.5 = 3.7$
 $3.7 + 1.5 = 5.2$
 $5.2 - 0.5 = 4.7$
 $4.7 + 1.5 = 6.2$
51. (5) Required ratio = $4v_1d_1 = 7v_2d_2 = \frac{7v_1d_1}{d_2} : 7v_2$
 where d is the density and v is the volume of liquids.
 Given, $117d_1 = 151d_2$
 $\therefore \frac{d_1}{d_2} = \frac{151}{117}$
 Now, with $7v_2$ of second liquid, $4v_1$ of first liquid is used in place of $4v_1 \times \frac{151}{117}$
 \therefore % error = $\left(\frac{34}{117} \times \frac{117}{151} \times 100 \right) \%$
 $= 22.50\% \approx 22\%$
52. (3) Let salary = ₹ 100
 Expenses on education = ₹ 40
 Expenses in purchasing books of ₹ 40
 $= 40 \times \frac{60}{100} = ₹ 24$
 Remaining = $40 - 24 = ₹ 16$
 Expenses in purchasing stationary items
 $= 16 \times \frac{1}{2} = ₹ 8$
 A/Q,
 $8 \times \frac{1}{4} \rightarrow 160$
 $\therefore 100 \rightarrow \frac{160}{2} \times 100 = ₹ 8000$
53. (3) Let the cost price of Sunil be x . Then the cost price of Anil will be $1.2x$ and the cost price of Ramesh will be $1.2x \times 1.10 = 1.32x$
 Then the cost price of Suresh = $x \times 1.2 \times 1.10 + 116 = ₹ 132x + 116$
 Now, $1.32x + 116 - x = 500$
 or, $0.32x = 500 - 116 = 384$
 $\therefore x = \frac{384}{0.32} \times 100 = ₹ 1200$
 \therefore Anil's cost price = $1200 \times 1.2 = ₹ 1440$
 Hence Anil paid to Sunil ₹ 1440.
54. (2) Ratio of men to women $(15 \times 10)M$
 $= (25 \times 8)W$
 or, $150M = 200W$
 or, $3M = 4W$ $\therefore W = \frac{3}{4}M$
- \therefore 1 man's work = $\frac{1}{150}$
 $\therefore (10W + 3M) = \frac{21}{2}$ M can do the work in
 $\frac{1}{150} \times \frac{21}{2} = \frac{7}{100}$ days
 $\frac{65}{100}$ work done by 10 women in x days.
 \therefore 8 women complete a piece of work in 25 days
 \therefore 10 women complete the $\frac{65}{100}$ work in 25
 $\times \frac{8}{10} \times \frac{65}{100} = 13$ days
55. (4) Speed of the first train = 54 kmph
 $= 54 \times \frac{5}{18} = 15$ m/s
 \therefore Time = $\frac{\text{Sum of lengths of both trains}}{\text{Sum of speed of both trains}}$
 Then, $12 = \frac{195 + 225}{(15 + x)}$
 or, $180 + 12x = 420$
 or, $12x = 420 - 180 = 240$
 $\therefore x = 20$ m/s = $\left(20 \times \frac{18}{5} \right)$ km/hr = 72 kmph
- (56-60) :**
56. (3) No. of candidates appeared in interview
 for Others = $86700 \times \frac{12}{100} = 10404$
 No. of candidates selected in PO
 $= 25200 \times \frac{14}{100} = 3528$
 \therefore Required ratio
 $= 10404 : 3528 = 289 : 98$
57. (1) Total no. of candidates appeared in interview for IT Officer and Others
 $PO = \frac{86700}{100} \times (14 + 12) = \frac{86700}{100} \times 26$
 $= 22542$
 No. of candidates appeared in Interview
 for Clerk = $25200 \times \frac{25}{100} = 6300$
 \therefore Required % = $\left(\frac{22542}{6300} \times 100 \right) \%$
 $= 357.80\% \approx 358\%$
58. (2) The difference between no. of candidates appeared and selected in interview for
 $PO = 86700 \times \frac{18}{100} - 25200 \times \frac{14}{100} = 12078$

$$\begin{aligned} \text{Clerk} &= 86700 \times \frac{25}{100} - 25200 \times \frac{25}{100} \\ &= 15375 \end{aligned}$$

$$\begin{aligned} \text{Manager} &= 86700 \times \frac{16}{100} - 25200 \times \frac{20}{100} \\ &= 8832 \end{aligned}$$

$$\begin{aligned} \text{IT Officer} &= 86700 \times \frac{14}{100} - 25200 \times \frac{16}{100} \\ &= 8106 \end{aligned}$$

∴ Required answer is Clerk.

$$\begin{aligned} 59. (4) \text{ Required difference} &= 25200 \times \left(\frac{14-10}{100} \right) \\ &= 25200 \times \frac{4}{100} = 1008 \end{aligned}$$

60. (5) Total no. of candidates selected in Manager and Clerk together

$$\begin{aligned} &= 25200 \times \left(\frac{20+25}{100} \right) \\ &= 25200 \times \frac{45}{100} = 11340 \end{aligned}$$

Total no. of candidates appeared in these

$$\begin{aligned} \text{interview} &= 86700 \times \left(\frac{16+25}{100} \right) \\ &= 86700 \times \frac{41}{100} = 35547 \end{aligned}$$

$$\begin{aligned} \therefore \text{Required \%} &= \left(\frac{11340}{35547} \times 100 \right) \% \\ &= 31.90\% \approx 32\% \end{aligned}$$

61. (1) 4 men can be selected out of 8 men in 8C_4 ways and 3 women can be selected out of 5 women in 5C_3 ways.

Hence required no. of ways
 $= {}^8C_4 \times {}^5C_3 = 70 \times 10 = 700$

62. (3) Initially, the quantity of milk in the

$$\text{mixture} = \left(\frac{456}{7+5} \times 7 \right) = 266 \text{ litres}$$

$$\begin{aligned} \text{And the quantity of water} &= \frac{456}{12} \times 5 \\ &= 190 \text{ litres} \end{aligned}$$

Now, let the quantity of extra milk to be added be x litres

$$\begin{aligned} \text{Then, } \frac{266+x}{190} &= \frac{9}{5} \\ \text{or, } 5x &= 190 \times 9 - 266 \times 5 \\ &= 1710 - 1330 = 380 \end{aligned}$$

$$\therefore x = \frac{380}{5} = 76 \text{ litres}$$

$$\begin{aligned} 63. (4) \text{ Total failed candidates} &= 25x + 40x - 19x = 46x \\ \text{Passed in both subjects} &= 100x - 46x = 54 \\ \text{Total no. of appeared candidates} &= 100x \\ \therefore 54x &= 972 \end{aligned}$$

$$\therefore 100x = \frac{972}{54x} \times 100x = 1800$$

64. (2) $r = 39\text{cm}$, $h = 80\text{ cm}$

$$\therefore l = \sqrt{r^2 + h^2} = \sqrt{39^2 + 80^2} = 89\text{ cm}$$

Area of the sheet = total surface area of the cone = $\pi r l + \pi r^2 = \pi r(l + r)$

$$\begin{aligned} &= \frac{22}{7} \times 39(89 + 80) \\ &= 20714.57\text{ cm}^2 \end{aligned}$$

65. (3) Let the present age of boy's father be x years.

$$\text{Then, boy's age} = \frac{2x}{7} \text{ years}$$

$$\text{boy's brother's age} = \frac{2x}{7} + 3 = \frac{2x+21}{7}$$

Now ratio between the present age of boy's father and the of boy's brother

$$= \frac{x}{\frac{2x+21}{7}} = \frac{14}{5}$$

$$\text{or, } \frac{x}{2x+21} = \frac{2}{5}$$

$$\text{or, } x = 42 \text{ years}$$

$$\therefore \text{ boy's present age} = 42 \times \frac{2}{7} = 12 \text{ years}$$

66. (2) I. $x^2 - 11x + 24 = 0$

$$\Rightarrow x^2 - 8x - 3x + 24 = 0$$

$$\Rightarrow x(x-8) - 3(x-8) = 0$$

$$\Rightarrow (x-3)(x-8) = 0$$

$$\therefore x = 3 \text{ or } 8$$

II. $2y^2 - 9y + 9 = 0$

$$\Rightarrow 2y^2 - 3y - 6y + 9 = 0$$

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

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

$$\therefore y = \frac{3}{2} \text{ or } 3$$

Clearly, $x \geq y$

67. (3) I. $x^3 \times 13 = x^2 \times 247$

$$\Rightarrow \frac{x^3}{x^2} = \frac{247}{13} \Rightarrow x = 19$$

$$\text{II. } y^{\frac{1}{3}} \times 14 = \frac{294}{y^{\frac{2}{3}}}$$

$$\Rightarrow y^{\frac{1}{3}} \times y^{\frac{2}{3}} = \frac{294}{14}$$

$$\Rightarrow y^{\frac{1+2}{3}} = 21 \Rightarrow y = 21$$

Clearly, $x < y$

68. (4) I. $\frac{48}{x^7} - \frac{12}{x^7} = \frac{10}{x^7}$

$$\Rightarrow \frac{48-12}{x^7} = \frac{10}{x^7} \Rightarrow 36 = \frac{10 \cdot 4}{x^7 \cdot 7}$$
$$\Rightarrow 36 = x^2 \Rightarrow x = \pm 6$$

II. $y^3 = 999 - 783 = 216$

$\therefore y = \sqrt[3]{216} = 6$

Clearly, $x \leq y$

69. (3) I. $\sqrt{500} x = -\sqrt{402}$

$$\Rightarrow x = \frac{\sqrt{402}}{\sqrt{500}} \approx -\sqrt{\frac{400}{500}} \approx -0.9$$

II. $\sqrt{360} y = -\sqrt{200}$

$$y = -\sqrt{\frac{200}{360}} \approx -0.74$$

Clearly $x < y$

70. (3) I. $x = 17^2 + 144 \times \frac{1}{18}$

$$\Rightarrow x = 289 + 8 = 297$$

II. $y = 26^2 - 18 \times 21$

$$\Rightarrow y = 676 - 378 = 298$$

Clearly, $x < y$

English

81. (4) Change 'fire' into 'firing'.
82. (4) Replace 'by' by 'from'.
83. (5) No error.
84. (2) Change 'endanger' into 'endangered'.
85. (2) Change 'body' into 'bodies'.
86. (3) Replace 'that' by 'whether or if'.
87. (4) Change 'do' into 'doing'.
88. (4) Change 'have' into 'has'.
89. (3) Change 'their' into 'its'.
90. (5) No error.

VOCABULARIES

Words	Meaning in English	Meaning in Hindi
Companion	fellow	संगी-साथी
Entice	attract or tempt by offering pleasure	आकर्षित करना
Coax	persuade (someone) gradually or by flattery to do something	मनाना, फुसलाना
Denial	a statement that says something is not true or does not exist	अस्वीकार करना
Escalation	a rapid increase; a rise	वृद्धि
Exemptions	the process of freeing	छूट
Taxonomic	arranging them into the groups	वर्गीकृत करना
Stagger	an unsteady walk or movement	लडखड़ाकर चलना
Proliferation	rapid increase in numbers	शीघ्रता से बढ़ना
Fade	the process of becoming less bright	फीका पड़ना
Tame	to control	नियंत्रित करना
Plague	cause continual trouble or distress to	महामारी
Induce	to persuade or influence somebody to do something	प्रेरित करना

KD
Campus
KD Campus

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

SBI PO PHASE-I - 85 (ANSWER KEY)

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

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