

SBI CLERK PHASE - I - 137 (SOLUTION)

REASONING

(1-5) :

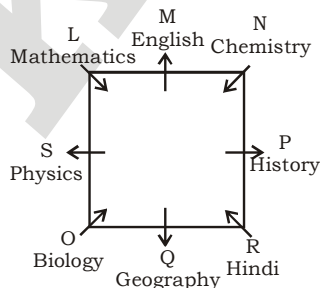
Date →	28 th	28 th
Floor ↓		
4	Nayan (April)	Jayant (April)
3	Mohan (February)	—
2	Sunil (January)	Ayush (March)
1	Tanvir (March)	Uday (January)

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

(6-10):

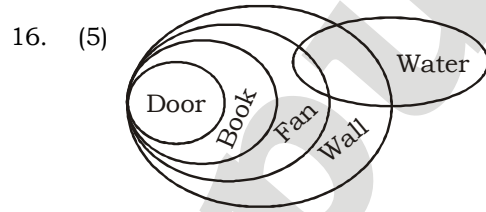
6. (4) $R \geq P \leq U \geq K$
I. $K > R \rightarrow$ False
 $R \geq P \leq U < L$
II. $L > R \rightarrow$ False
Neither I nor II is true
7. (3) $H = I \leq R \leq M$
I. $M = I \rightarrow$ Doubt
II. $M > I \rightarrow$ Doubt
Either I or II is true
8. (2) $S > I \leq H > N$
I. $N \leq S \rightarrow$ False
II. $N < D \rightarrow$ True
Only II is true
9. (2) $W < Y < P \leq O < I$
I. $Y \leq I \rightarrow$ False
II. $O > W \rightarrow$ True
Only II is true
10. (4) $A \leq B > C > Z$
I. $A > Z \rightarrow$ False
 $E > D \geq C \leq F$
II. $F < E \rightarrow$ False
Neither I nor II is true

(11-15):



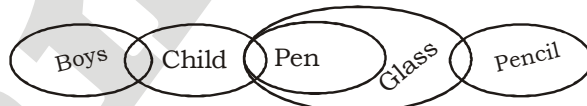
11. (1) 12. (3) 13. (5)
14. (5) 15. (5)

(16 - 20):



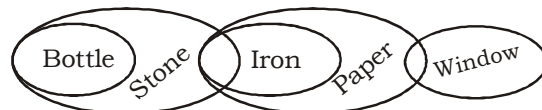
- I. True II. True
III. True IV. True
All follow

17. (4)



- I. False II. True
III. True IV. False
Only II and III follow

18. (2)



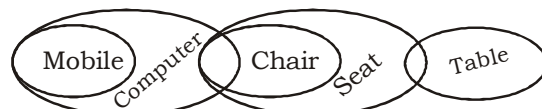
- I. False II. True
II. True IV. False
Only II and III follow

19. (1)



- I. False II. False
III. False IV. False
None follows

20. (4)



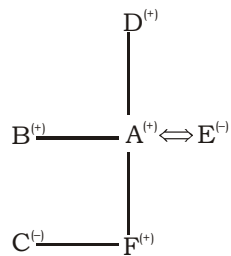
- I. True II. True
III. True IV. True
All follow

(21-25):

Bowl Number	Colour
6	White
2	Black
4	Pink
5	Red
3	Yellow
7	Blue
1	Grey

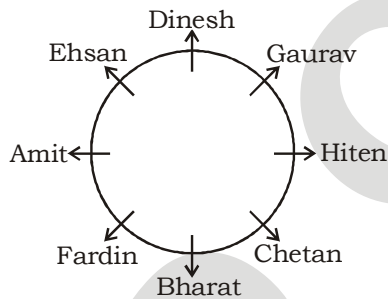
21. (3) 22. (5) 23. (3)
24. (1) 25. (5)

(26-28):



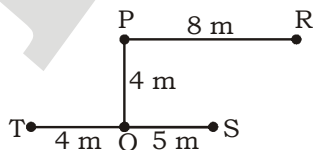
26. (3) 27. (4) 28. (1)

(29-30):



29. (2) 30. (1) 31. (4)
32. (3) 33. (2)

(34-35):



34. (1) 35. (3)

Maths

(36-40):

$$36. (1) \quad 4\frac{1}{2} - 2\frac{5}{6} = ? - 1\frac{7}{12}$$

$$\Rightarrow \frac{9}{2} - \frac{17}{6} = ? - \frac{19}{12}$$

$$\Rightarrow \frac{27-17}{6} = ? - \frac{19}{12}$$

$$\Rightarrow ? = \frac{10}{6} + \frac{19}{12}$$

$$\Rightarrow ? = \frac{39}{12} = 3\frac{1}{4}$$

$$37. (2) \quad 99.9 + 9.99 + 0.99 + 99.09 + 9.09 + 999 = ?$$

$$\Rightarrow ? = 1218.06$$

$$38. (3) \quad 4\frac{2}{3} + 7\frac{1}{6} - 5\frac{2}{9} = ?$$

$$\Rightarrow ? = \frac{14}{3} + \frac{43}{6} - \frac{47}{9}$$

$$= \frac{84 + 129 - 94}{18} = \frac{119}{18} = 6\frac{11}{18}$$

$$39. (4) \quad 65\% \text{ of } 240 + ?\% \text{ of } 150 = 210$$

$$\Rightarrow 240 \times \frac{65}{100} + \frac{?}{100} \times 150 = 210$$

$$\Rightarrow 156 + \frac{?}{100} \times 150 = 210$$

$$\Rightarrow ? = \frac{54 \times 100}{150} = 36$$

$$40. (1) \quad \frac{2}{3} \text{ of } 1\frac{2}{5} \text{ of } 75\% \text{ of } 540 = ?$$

$$\Rightarrow \frac{2}{3} \times \frac{7}{5} \times \frac{75}{100} \times 540 = ?$$

$$\Rightarrow ? = 378$$

(41-45):

$$41. (1) \quad \text{Required difference} \\ = [(46 + 64 + 72) - (62 + 48 + 36)] \times 100 \\ = 3,600$$

$$42. (4) \quad \text{Required difference} \\ = \left[70 \times \frac{120}{100} - 30 \times \frac{110}{100} \right] \times 100 \\ = 5,100$$

43. (3) Number of students enrolled in college

$$B \text{ in october} = \frac{72+76}{2} \times 100 = 7,400$$

$$\therefore \text{ Required number of students} = \frac{7400}{2} = 3,700$$

44. (5) Total number of students in March 2017

$$= (84 + 38) \times \frac{140}{100} \times 100 = 17,080$$

Number of students in college A in

$$\text{March 2017} = 84 \times \frac{125}{100} \times 100 = 10,500$$

$$\therefore \text{ Required number of students} = 17080 - 10500 = 6,580$$

45. (4) Required ratio = (62 + 14) : (30 + 72)

$$= 76 : 102 = 38 : 51$$

(46-50):

46. (2) The number series is as follows:

$$8 + 2 = 10$$

$$10 + (3 \times 2 + 2) = 18$$

$$18 + (3 \times 8 + 2) = 44$$

$$44 + (3 \times 26 + 2) = 124$$

$$124 + (3 \times 80 + 2) = \mathbf{366}$$

47. (4) The number series is as follows:

$$13 + 1 + 12 = 25$$

$$25 + 3 \times 12 = 61$$

$$61 + 5 \times 12 = 121$$

$$121 \times 7 \times 12 = 205$$

$$205 + 9 \times 12 = \mathbf{313}$$

48. (1) The number series is as follows:

$$656 \div 2 + 24 = 352$$

$$352 \div 2 + 24 = 200$$

$$200 \div 2 + 24 = 124$$

$$124 \div 2 + 24 = 86$$

$$86 \div 2 + 24 = \mathbf{67}$$

49. (3) The number series is as follows:

$$454 + 18 = 472$$

$$472 - 27 = 445$$

$$445 + 18 = 463$$

$$463 - 27 = 436$$

$$436 + 18 = \mathbf{454}$$

50. (2) The number series is as follows:

$$12 \times 4 - 30 = 18$$

$$18 \times 4 - 36 = 36$$

$$36 \times 4 - 42 = 102$$

$$102 \times 4 - 48 = 360$$

$$300 \times 4 - 54 = \mathbf{1386}$$

$$51. (1) \text{ Rate} = \frac{SI \times 100}{\text{Principal} \times \text{Time}}$$

$$= \frac{10230 \times 100}{27500 \times 3} = 12.4\%$$

$$\therefore C.I = P \left[\left(1 + \frac{R}{100} \right)^T - 1 \right]$$

$$= 27500 \left[\left(1 + \frac{12.4}{100} \right)^3 - 1 \right]$$

$$\approx 27500 (1.42 - 1)$$

$$= 27500 \times 0.42$$

$$= \mathbf{₹ 11,550}$$

52. (5) According to question,

$$\text{Selling Price} = \frac{6500 \times 95}{100} = \mathbf{₹ 6175}$$

$$\therefore \text{ Cost Price} = \frac{6175}{115} \times 100$$

$$= \mathbf{₹ 5269.56} \approx \mathbf{₹ 5,369}$$

53. (5) Side of the square = $\sqrt{1024} = 32$ cm.

$$\therefore \text{ Length of rectangle} = 2 \times 32 = 64 \text{ cm.}$$

Breadth of rectangle

$$= 32 - 12 = 20 \text{ cm.}$$

$$\therefore \text{ Required ratio} = 64 : 20 = 16 : 5$$

54. (1) Required probability = $\frac{{}^5C_2}{{}^7C_2} = \frac{10}{21}$

55. (3) Four years ago,

$$\text{Shyam} : \text{Ram} = 3 : 4$$

After four years,

$$\frac{3x+8}{4x+8} = \frac{5}{6}$$

$$\Rightarrow 20x + 40 = 18x + 48$$

$$\Rightarrow 2x = 48 - 40 = 8$$

$$\Rightarrow x = \frac{8}{2} = 4$$

$$\therefore \text{ Shyam's present age} = 3x + 4$$

$$= 3 \times 4 + 4 = 16 \text{ years}$$

(56-60):

56. (4) Required total

$$= 350 + 325 + 300 + 375 + 425$$

$$= \mathbf{1,775}$$

57. (3) Required ratio

$$= (300 + 425) : (275 + 300)$$

$$= 725 : 575 = 29 : 23$$

58. (1) Total number of Mobiles sold by all the shopkeeper
 Lenovo = 350 + 325 + 300 + 375 + 425 = 1,775
 Moto = 275 + 300 + 325 + 450 + 325 = 1,675
 Nokia = 425 + 475 + 325 + 425 + 225 = 1,875
 Required ratio = 1775 : 1675 : 1875 = 71 : 67 : 75

59. (5) Required% = $\left(\frac{325}{1875} \times 100\right)\%$
 = 17.33% \approx 17%

60. (1) Required% = $\left(\frac{300}{1100} \times 100\right)\%$
 = 27.27% \approx 27%

61. (1) According to question,
 SI for 10 years = $\frac{1000 \times 5 \times 10}{100} = ₹ 500$
 Now, P = ₹ 1500, A = ₹ 2000
 \therefore SI = ₹ 500
 Now, $T = \frac{500 \times 100}{1500 \times 5} = 6\frac{2}{3}$ years
 \therefore Total time = $16\frac{2}{3}$ years

62. (3) 2 kmph = $\left(\frac{2 \times 5}{18}\right)$ m/s. = $\frac{5}{9}$ m/s.
 and 4 kmph = $\frac{4 \times 5}{18}$ m/s. = $\frac{10}{9}$ m/s.
 Let the length of the train be x m and its speed be y m/s. Then,
 $\frac{x}{y - \frac{5}{9}} = 9$
 $\Rightarrow 9y - 5 = x$
 $\therefore 9y - x = 5$ (i)
 and $\frac{x}{y - \frac{10}{9}} = 10$
 $\Rightarrow 10(9y - 10) = 9x$
 $\Rightarrow 90y - 9x = 100$ (ii)
 By equation (i) $\times 10$ - equation (ii), we have

$$90y - 10x = 50$$

$$90y - 9x = 100$$

$$\begin{array}{r} - \quad + \quad - \\ \hline -x = -50 \end{array}$$

$$\Rightarrow x = 50 \text{ m}$$

63. (3) According to question,

	A	B	C
Efficiency	3	2	6
No. of days	2	3	1

 \Rightarrow Number of days taken by A = 12,
 Number of days taken by B = 18
 and Number of days taken by C = 6

$$1 \text{ day's work of } (A + B) = \frac{5}{36}$$

$$1 \text{ day's work of } (B + C) = \frac{8}{36}$$

$$1 \text{ day's work of } (C + A) = \frac{9}{36}$$

In 5 days total work done
 $= \frac{5}{36} + \frac{8}{36} + \frac{9}{36} + \frac{5}{36} + \frac{8}{36} = \frac{35}{36}$

Now, the rest of the work
 $\left(\text{ie, } \frac{1}{36}\right)$ is done by AC
 Number of days taken by AC for the rest

$$\text{of the work} = \frac{\frac{1}{36}}{\frac{9}{36}} = \frac{1}{9}$$

Therefore, total time taken to complete the work = $5 + \frac{1}{9} = 5\frac{1}{9}$ days

64. (1) 2A 30
 3B 20 60
 6C 10
 ABC discharge chemical in 1 min = 6 + 3 + 2 = 11.

$$\text{So, proportion of R} = \frac{6 \times 3}{11 \times 3} = \frac{6}{11}$$

65. (3) According to question,
 Required number of ways = 4^6

(66-70) :

66. (2) I. $14x^2 - 57x + 55 = 0$
 $\Rightarrow 14x^2 - 35x - 22x + 55 = 0$
 $\Rightarrow 7x(2x - 5) - 11(2x - 5) = 0$

$$\Rightarrow x = \frac{11}{7}, \frac{5}{2}$$

II. $7y^2 + 3y - 22 = 0$
 $\Rightarrow 7y^2 + 14y - 11y - 22 = 0$
 $\Rightarrow 7y(y + 2) - 11(y + 2) = 0$

$$\Rightarrow y = \frac{11}{7}, -2$$

Clearly, $x \geq y$

67. (1) I. $\sqrt{784}x + 1234 = 1486$
 $\Rightarrow 28x = 1486 - 1234$

$$\Rightarrow x = \frac{252}{28} = 9$$

II. $\sqrt{1089}y + 2081 = 2345$
 $\Rightarrow 33y = 2345 - 2081$

$$\Rightarrow y = \frac{264}{33} = 8$$

Clearly, $x > y$

68. (5) I. $3x^2 - 29x + 18 = 0$
 $\Rightarrow 3x^2 - 27x - 2x + 18 = 0$
 $\Rightarrow 3x(x - 9) - 2(x - 9) = 0$

$$\Rightarrow x = \frac{2}{3}, 9$$

II. $2y^2 - 22y + 56 = 0$
 $\Rightarrow 2y^2 - 14y - 8y + 56 = 0$
 $\Rightarrow 2y(y - 7) - 8(y - 7) = 0$

$$\Rightarrow y = \frac{8}{2}, 7$$

69. (1) I. $5x + 2y = 96$... (i)

$$3(7x + 5y) = 489$$

$$7x + 5y = 163$$
 ... (ii)

Equation (i) $\times 5$ - equation (ii) $\times 2$, we get

$$25x + 10y - 14x - 10y = 480 - 326$$

$$\Rightarrow 11x = 154$$

$$\Rightarrow x = 14$$

Put the value vaive of x is equation (i), we get

$$5 \times 14 + 2y = 96$$

$$\Rightarrow 2y = 96 - 70$$

$$\Rightarrow y = 13$$

Clearly, $x > y$

70. (5) I. $\frac{15}{\sqrt{x}} - \frac{9}{\sqrt{x}} = x^{\frac{1}{2}}$

$$\Rightarrow 15 - 9 = x^{\frac{1}{2} + \frac{1}{2}}$$

$$\Rightarrow x = 6$$

II. $y^{10} - (36)^5 = 0$

$$\Rightarrow y^{10} = (36)^5$$

$$\Rightarrow y^{10} = 6^{10}$$

$$\Rightarrow y = 6$$

Clearly, $x = y$ **ENGLISH LANGUAGE****(91-95) : (FABDCE)**

91. (1) 92. (5) 93. (2)

94. (2) 95. (5)

(96-100):

96. (3) Insert 'been' after 'has'.

97. (3) Substitute 'will have no' with 'will not have'.

98. (2) Replace 'alternate' with 'alternative'.

99. (5)

100. (4) Replace 'few' with 'a few'.

VOCABULARIES

Word	Meaning in English	Meaning in Hindi
Prerequisite	required as a prior condition	शर्त
Contemporary	living or occurring at the same time	समकालीन
Dormant	(of an animal) having normal physical functions suspended or slowed down for a period of time; in or as if in a deep sleep	निष्क्रिय
Sectarian	denoting or concerning a sect or sects	सांप्रदायिक
Pedagogy	the method and practice of teaching, especially as an academic subject or theoretical concept.	शिक्षा शास्त्र
Revamp	give new and improved form, structure, or appearance to	सुधार
Medley	a varied mixture of people or things; a miscellany	मिश्रण
Ossification	conformity	हड्डी बन जाना
Hampers	or impede the movement or progress of	बाधित
Bolstered	support or strengthen; prop up	बल मिला
Imbibition	drinking, imbibing	अंतः शोषण
Coalescing	come together and form one mass or whole	संगठित होना
Amalgamate	combine or unite to form one organization or structure	मिलाना
Erudite	having or showing great knowledge or learning	वैज्ञानिक
Profane	relating or devoted to that which is not sacred or biblical; secular rather than religious	अपवित्र
Ungodly	irreligious or immoral	धर्मभ्रष्ट
Ascended	go up or climb	चढ़ना
Awkward	causing difficulty; hard to do or deal with	भद्दा

KD
Campus

KD Campus

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

SBI CLERK PHASE - I - 137 (ANSWER KEY)

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

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