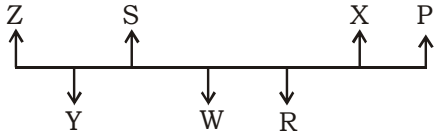# SBI CLERK PHASE - I - 189 (SOLUTION)

REASONING

(1-6) :

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

7. (4) **Given statements:**
   $H < I > J = K \geq L$ ....(i)
   $J \leq M$ ....(ii)
   Combining both statement,
   $M \geq J = K \geq L$
   I. $K \geq M \to$ False
   $H < I > J \leq M$
   II. $M \geq H \to$ False
   Hence, Neither conclusion I nor II is true.

8. (5) **Given statements:**
   $P = Q \geq R < S$ ......(i)
   $R \geq T$ .....(ii)
   Combining both statement,
   $T \leq R < S$
   I. $S > T \to$ True
   $P = Q \geq R \geq T$
   II. $P \geq T \to$ True
   Hence, Both conclusion I and II are true.

9. (4) **Given statements:**
   $M > N \geq O < P$ ......(i)
   $Q < O \leq R$ ......(ii)
   Combining both statement,
   $R \geq O < P$
   I. $R > P \to$ False
   $R \geq O \leq N$
   II. $R \geq N \to$ False
   Hence, Neither conclusion I nor II is true.

10. (4) **Given statements:**
    $R > S \geq T < U$ ....(i)
    $V > T > X$ ......(ii)
    Combining both statement,
    $S \geq T < V$
    I. $V > S \to$ False
    $V > T < U$
    II. $U > V \to$ False
    Hence, Neither conclusion I nor II is true.

11. (4) **Given statements:**
    $A = B \leq C > D$ ....(i)
    $C \geq E$ ....(ii)
    Combining both statement,
    $A = B \leq C \geq E$
    I. $A \geq E \to$ False
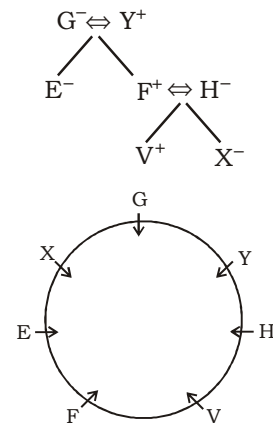 $E \leq C > D$
    II. $E > D \to$ False
    Hence, Neither conclusion I nor II is true.

(12–15) :

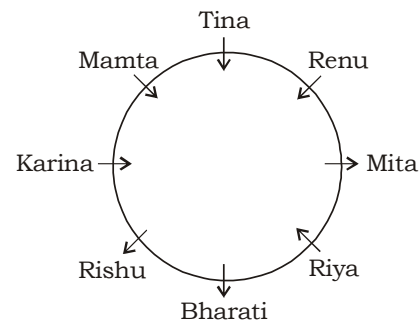| Floor	Person
6	R
5	S
4	X
3	U
2	P
1	Q

12. (4)　　13. (1)　　14. (2)　　15. (3)

(16-20) : **Family Tree**
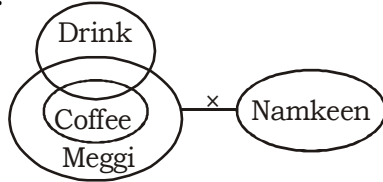

16. (3)　　17. (2)　　18. (1)
19. (4)　　20. (4)

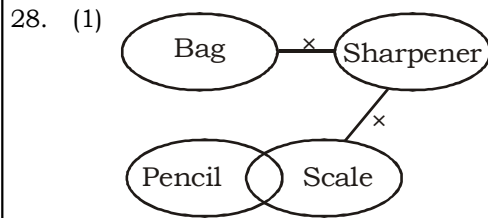**(21-25) :**

21. (4)   22. (1)   23. (3)
24. (2)   25. (3)

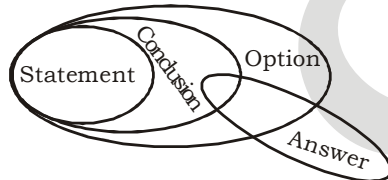**(26-27) :**

26. (5) I. True   II. True
    Hence, Both Conclusion I and II follow.
27. (1) I. True   II. False
    Hence, Only conclusion I follows.

28. (1)

    I. True   II. Can't say
    Hence, Only conclusion I follows.

(29-30) :

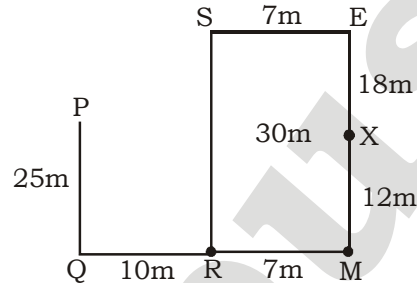29. (1) I. True   II. Can't say
    Hence, Only conclusion I follows.
30. (5) I. True   II. True
    Hence, Both conclusion I and II follow.

(31–33) :

Market	:	Zo
going	:	Pit
is	:	ch
all	:	ha
are	:	sit
far	:	jo
too	:	Fa
not	:	na
for	:	sa
he	:	la

31. (1)   32. (3)   33. (2)

(34-35) :

34. (2)   35. (1)

Maths

36. (3) $18 \times 0.5 - 1 = 8$
    $8 \times 1 - 2 = 6$
    $6 \times 2 - 3 = 9$
    $9 \times 4 - 4 = 32$
    $32 \times 8 - 5 = \mathbf{251}$
37. (1) $36 \div 2 = 18$
    $18 \div 3 = 6$
    $6 \div 2 = 3$
    $3 \div 3 = 1$
    $1 \div 2 = \mathbf{0.5}$
38. (4) $18 + 11 = 29$
    $29 + 13 = 42$
    $42 + 11 = 53$
    $53 + 13 = \mathbf{66}$
    $66 + 11 = 77$
39. (2) $1 + 243 = 244$
    $244 - 81 = 163$
    $163 + 27 = 190$
    $190 - 9 = 181$
    $181 + 3 = \mathbf{184}$
40. (2) $250 - 31 = \mathbf{219}$
    $219 - 29 = 190$
    $190 - 23 = 167$
    $167 - 19 = 148$
    $148 - 17 = 131$
41. (3) Required difference

    $= \dfrac{(24 + 16) - (18 + 12)}{100} \times 300$

    $= (40 - 30) \times 3 = 30 = 30$
42. (5) Total number of students who gave exam

    in August 2017 = $300 \times \dfrac{120}{100} = 360$

43. (1) Required central angle = $16 \times 3.6 = 57.6°$

44. (2) Required average

$$= \frac{1}{3}\left(\frac{13+18+24}{100}\right) \times 300 = 55$$

45. (4) Required Ratio = $\frac{17+16+18}{13+17+24} = \frac{51}{51} = \frac{17}{18}$

46. (1) ? = $\sqrt{16 \times 15 + 24 \times 12 + 97}$

    ? = $\sqrt{240 + 288 + 97}$

    ? = $\sqrt{625}$

    ? = 25

47. (1) 28% of 420 + 36% of 540 = ?

    ? = $\frac{28}{100} \times 420 + \frac{36}{100} \times 540$

    ? = 117.6 + 194.4

    ? = 312

48. (3) 75% of 450 + 25% of 850 = ?

    ? = $\frac{25}{100}$ (3 × 450 + 850) = $\frac{1}{4}$ (2200)

    = 550

49. (5) $\sqrt{7396} + \sqrt{?} = 104$

    $\sqrt{?} = 104 - \sqrt{7396}$

    $\sqrt{?} = 104 - 86$

    ? = $(18)^2 = 324$

50. (4) Sum of present ages of A, B and C = 66 years

    Sum of present age of B and C

    = 18 × 2 + 6 = 42

    Present age of A = 66 – 42 = 24

    A's age nine years hence = 24 + 9

    = 33 years

51. (4) Let speed of boat in still water and speed of stream be 8x and x respectively.

    ATQ,

    $\frac{67.5}{2.5} = 8x + x$

    $x = \frac{27}{9}$

    x = 3

    Required difference = 8x – x = 7x

    = 7 × 3 = 21

52. (3) Breadth of rectangle = x metre

    Length = (x + 6) metre

    ∴ 2(x + 6 + x) = 84

    ⇒ 2x = 42 – 6 = 36

    ⇒ x = 18

    ∴ Length = 18 + 6 = 24 metre

∴ Area of rectangle = Length × Breadth

= 18 × 24 = 432 sq. metre

53. (2) Overall rate for 2 years at 20% p.a compounded yearly is equivalent to 20 +

    20 + $\frac{20 \times 20}{100}$ = 44%

    ATQ,

    44% of sum = 1716

    100% of sum = 3900

    Simple interest earned = $\frac{3900 \times 15 \times 3}{100}$

    = Rs. 1755

54. (3) Sol. Let cost price of article = 100x

    ATQ,

    42x - 18x = 110.4

    24x = 110.4

    x = 4.6

    Cost price of article = 4.6 × 100 = 460

    Selling price to earn 25% profit

    = 460 × $\frac{125}{100}$ = Rs 575

55. (3) Efficiency Total Work

    3 ← A → 20

    +4 ← B → 15
    ⎯⎯⎯⎯⎯⎯⎯
    7 ← A+B

    Work done by A in last 6 days = 6 × 3

    = 18 work.

    Remaining work done by A + B = 60 – 18

    = 42 work

    B left the work after = $\frac{42}{7}$ = 6 days.

56. (5) I. $x^2 = 196$

    ⇒ x = ±14

    II. $y^2 + 2y - 48 = 0$

    ⇒ $y^2 + 8y - 6y - 48 = 0$

    ⇒ y(y + 8) – 6(y + 8) = 0

    ⇒ (y – 6) (y + 8) = 0

    ⇒ y = 6, –8

    No relation can be established between x and y

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

    ⇒ $x^2 - 8x - 3x + 24 = 0$

    ⇒ x(x – 8) – 3(x – 8) = 0

$\Rightarrow$ (x – 3) (x – 8) = 0

$\Rightarrow$ x = 8, 3

II. $y^2 - 14y + 45 = 0$

$\Rightarrow y^2 - 9y - 5y + 45 = 0$

$\Rightarrow$ y(y – 9) – 5(y – 9) = 0

$\Rightarrow$ (y – 5) (y – 9) = 0

$\Rightarrow$ y = 5, 9

No relation can be established between x and y

58. (2) I. $2x^2 - 4x + 2 = 0$

$\Rightarrow 2x^2 - 2x - 2x + 2 = 0$

$\Rightarrow$ 2x(x – 1) – 2(x – 1) = 0

$\Rightarrow$ (2x – 2) (x – 1) = 0

$\Rightarrow$ x = 1, 1

II. $2y^2 - y - 1 = 0$

$\Rightarrow 2y^2 - 2y + y - 1 = 0$

$\Rightarrow$ 2y (y –1) +1(y –1)=0

$\Rightarrow$ (2y + 1) (y –1) = 0

$\Rightarrow y = -\dfrac{1}{2}, 1$

$\Rightarrow x \geq y$

59. (4) I. $x^2 - 15x + 56 = 0$

$\Rightarrow x^2 - 7x - 8x + 56 = 0$

$\Rightarrow$ x(x – 7) – 8 (x – 7) =0

$\Rightarrow$ (x – 8) (x – 7) = 0

$\Rightarrow$ x = 8, 7

II. $y = \sqrt{64}$

$\Rightarrow$ y = 8

$\Rightarrow y \geq x$

60. (5) I. $x^2 - x - 6 = 0$

$\Rightarrow x^2 - 3x + 2x - 6 = 0$

$\Rightarrow$ x(x – 3) +2 (x – 3) = 0

$\Rightarrow$ (x – 3) (x + 2) = 0

$\Rightarrow$ x = 3, –2

II. $y^2 - 6y + 8 = 0$

$\Rightarrow y^2 - 2y - 4y + 8 = 0$

$\Rightarrow$ y(y – 2) – 4 (y – 2) = 0

$\Rightarrow$ (y – 2) (y – 4) = 0

$\Rightarrow$ y = 2, 4

No relation can be established between x and y

61. (1) $\sqrt{441} - \sqrt{144} = \sqrt{?}$

$\Rightarrow 21 - 12 = \sqrt{?}$

$\Rightarrow 9 = \sqrt{?}$

$\Rightarrow$? = 81

62. (3) $18\dfrac{2}{3} - 7\dfrac{1}{4} = ? + 1\dfrac{1}{2}$

$\Rightarrow 18 - 7 + \dfrac{2}{3} - \dfrac{1}{4} = ? + 1 + \dfrac{1}{2}$

$\Rightarrow 10 + \dfrac{2}{3} - \dfrac{1}{4} - \dfrac{1}{2} = ?$

$\Rightarrow 10 + \dfrac{8 - 3 - 6}{12} = ?$

$\Rightarrow 10 - \dfrac{1}{12} = ?$

$\Rightarrow 9\dfrac{11}{12} = ?$

63. (4) $\sqrt{484} \times \sqrt{169} = ? + 50\%$ of 312

$\Rightarrow 22 \times 13 = ? + \dfrac{50}{100} \times 312$

$\Rightarrow$ 286 = ? + 156

$\Rightarrow$? = 130

64. (2) $15^2 + 36^2 = ? \times \sqrt[3]{2197}$

$\Rightarrow$ 225 + 1296 = ? × 13

$\Rightarrow \dfrac{1521}{13} = ?$

$\Rightarrow$ 117 = ?

65. (5) Let cost price of article = 100x

Selling price of one article = 120x

ATQ,

3 × 20x - 2 × 20x = 80

20x = 80

x = 4

Cost price of article = Rs 400

66. (1) Quantity I :

Length of train 'A' = x

Length of train 'B' = 0.5x

ATQ,

x + 0.5x = 12 × (25 + 15)

1.5x = 480

x = 320 meters

Quantity II : 160 meters

Quantity I > Quantity II

67. (2) Let average of a, b and c be x

a + b + c = 3x

And, b + c + d = 3x + 3

? d - a = 3

And, d + a = 39

d = 21 and a = 18

Quantity I : a = 18

Quantity II : 21

Quantity II > Quantity I

68. (1) Quantity I : Due to leakage only 80% of the cistern is filled this means 20% of tank is leaked out by leakage which is equal to 60 liters

20% = 60

100% = 300liters

Capacity of tank = 300 liters

Quantity II : 250 liters

Quantity I > Quantity II

69. (5) Quantity I :

Let speed of boat in still water and speed of stream be 2x and x respectively

ATQ,

$$\Rightarrow 32 = \frac{72}{3x} + \frac{72}{x}$$

$$\Rightarrow x = \frac{96}{32} = 3$$

Downstream speed = 2x + x = 3x = 9kmph

Quantity II : 9kmph

Quantity I = Quantity II

70. (5) Quantity I :

Side of square = $\sqrt{324}$ = 18 cm

Let length of rectangle be x and breadth of rectangle be (x – 4) cm
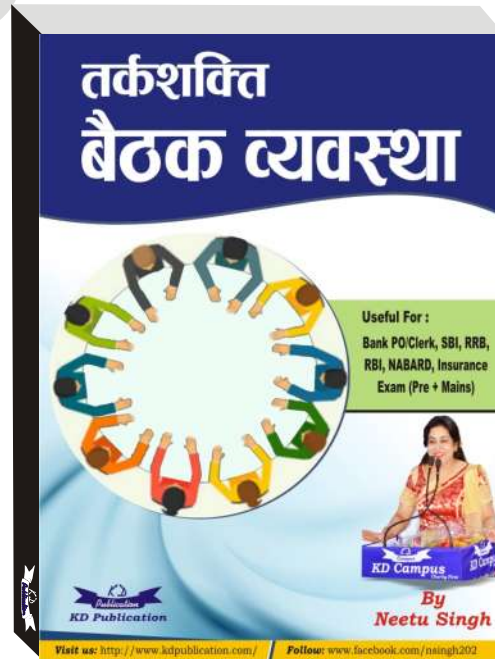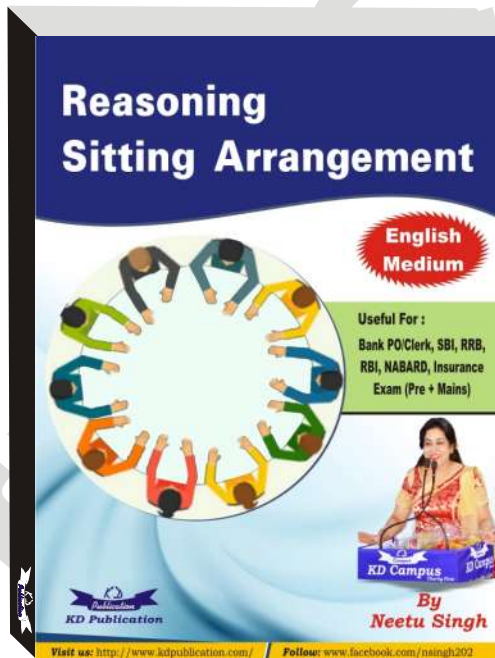
ATQ,

$$x + x - 4 = \frac{4 \times 18}{2} = 36$$

x = 20

Area of rectangle = 20 × 16 = 320 cm²

Quantity II : 320 cm²

Quantity I = Quantity II

VOCABULARIES

Word	Meaning in English	Meaning in Hindi
Extensive	(of agriculture) obtaining a relatively small crop from a large area with a minimum of attention and expense	व्यापक
Demonstrate	Clearly show the existence or truth of (something) by giving proof or evidence	प्रदर्शन करना
Overwhelming	Very great in amount	भारी
Predicts	Say or estimate that (a specified thing) will happen in the future or will be a consequence of something	भविष्यवाणी
Cusp	A pointed end where two curves meet, in particular	उभार
Collaboration	The action of working with someone to produce or create something	सहयोग
Grasp	A firm hold or grip	मुट्टी
Prevalence	The fact or condition of being prevalent; commonness	प्रसार
Adhere	Stick fast to (a surface or substance)	पालन करना
Biases	Prejudice in favor of or against one thing, person, or group compared with another, usually in a way considered to be unfair	पूर्वाग्रहों
Forecast	A prediction or estimate of future events, especially coming weather or a financial trend	पूर्वानुमान
Expedient	(of an action) convenient and practical, although possibly improper or immoral	उपाय
Obsolete	No longer produced or used; out of date	अप्रचलित
Apparent	As far as one knows or can see	जाहिर तौर पर
Discretion	The quality of behaving or speaking in such a way as to avoid causing offense or revealing private information	विवेक

SBI CLERK PHASE - I - 189 (ANSWER KEY)

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

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