

SBI Clerk Preliminary Grand Test –SCP-180551

HINTS & SOLUTIONS

ANSWER KEY

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

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1. (3) Insert 'been' after 'has'.
 2.(3) Substitute will have no with will not have'.
 3.(2) Replace 'alternate' with 'alternative'.
 4.(5)
 5.(4) Replace 'few' with 'a few'.
 6. (1) 7. (2) 8. (3)
 9. (4) 10. (1) 11. (2)
 12. (4) 13. (3) 14. (1)
 15. (5)
16-20. (FABDCE)
 16. (1) 17. (5)
 18. (2) 19. (2) 20. (5)
 21. (4) 22. (2) 23. (1)
 24. (3) 25. (5) 26. (3)
 27. (2) 28. (1) 29. (4)
 30. (5)
 31.(4) The number series is as follows:

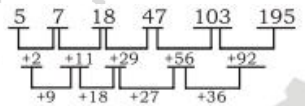
$7 + 4 \times 1 = 11$
 $11 + 4 \times 3 = 23$
 $23 + 4 \times 7 = 51$
 $51 + 4 \times 13 = 103$
 $103 + 4 \times 21 = 187$

32. (3) The number series is as follows:
 $30 + 35 = 65$
 $35 + 65 = 100$
 $65 + 100 = 165$
 $100 + 165 = 265$
 $165 + 265 = 430$

33. (4) The number series is as follows:
 $425 - 1 \times 11 = 414$
 $414 - 2 \times 11 = 392$
 $392 - 3 \times 11 = 359$
 $359 - 4 \times 11 = 315$
 $315 - 5 \times 11 = 260$

34. (2) The number series is as follows:
 $3 + 2 = 5$
 $5 + 2 = 7$
 $7 + 3 = 10$
 $10 + 3 = 13$
 $13 + 4 = 17$
 $17 + 4 = 21$

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



- 36.(1) According to question,

SI for 10 years = $\frac{1000 \times 5 \times 10}{100} = \text{Rs.}500$

Now, P = Rs. 1500, A = Rs. 2000

\therefore SI = Rs.500

Now, T = $\frac{500 \times 100}{1500 \times 5} = 6\frac{2}{3}$ years

Total time = $16\frac{2}{3}$ years

- 37.(3) $2 \text{ kmph} = \left(\frac{2 \times 5}{18}\right) \text{ m/s} = \frac{5}{9} \text{ m/s}$

and $4 \text{ kmph} = \frac{4 \times 5}{18} \text{ m/s} = \frac{10}{9} \text{ m/s}$.

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

$90y - 10x = 50$

$90y - 9x = 100$

$-x = -50$

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

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38.(3) According to question,

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

⇒ 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 of the work

$$\frac{1}{\frac{36}{9}} = \frac{1}{9}$$

Therefore, total time taken to complete the work =

$$5 + \frac{1}{9} = 5\frac{1}{9} \text{ days}$$

39. (1) 2A 30
3B 20 60
6C 10

ABC discharge chemical in 1 min = 6 + 3 + 2 = 11.

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

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

41. (3) Average number of sale per shopkeeper in city

$$P = 60 \times \frac{125}{100} = 75$$

$$\text{Required number of mobiles} = 28 \times 75 \times \frac{3}{7} = 900$$

42.(4) Required number of non-4G mobiles sold in city

$$T = 24 \times 45 \times \frac{45}{100} = 486$$

43.(3) Total number of moiles sold in city Q = $\frac{1920}{60} \times 100 = 3,200$

$$\therefore \text{Required number of shopkeeper} = \frac{3200}{80} = 40$$

44.(2) Total number of mobiles sold in city U = $\frac{3150}{7} \times 10 = 4,500$

$$\text{Required number of mobiles} = 4500 \times \frac{36}{100} = 1,620$$

45. (5) % of 4G mobiles sold in city S = $36 \times \frac{120}{100} = 43.2\%$

Total number of mobiles sold in city

$$S = \frac{1420}{56.8} \times 100 = 2,500$$

$$\text{Required average} = \frac{2500 + 1420}{35} = 112$$

46. (2) Required ratio

$$\text{City A} = 5000 : 5000 \times \frac{32}{100} = 25 : 8$$

47. (1) Number of candidates qualified from

$$\text{City A} = 5000 \times \frac{32}{100} = 1,600$$

$$\text{City F} = 27500 \times \frac{32}{100} = 8,800$$

$$\text{City E} = 30000 \times \frac{22}{100} = 6,600$$

$$\text{City B} = 10000 \times \frac{38}{100} = 3,800$$

∴ Required answer is city A

48. (5) Required % = $\left(\frac{27500 - 20000}{27500} \times 100\right)\% = 27.27\%$

49. (3) Required number of candidates = $27500 \times \frac{32}{100} = 8,800$

50. (4) Number of candidates qualified from city C

$$= 22500 \times \frac{30}{100} = 6,750$$

$$\therefore \text{Required \%} = \left(\frac{6750}{10000} \times 100\right)\% = 67.5\%$$

51. (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, $x \geq y$

52. (1) I. $\sqrt{784x} + 1234 = 1486$

$$\Rightarrow 28x = 1486 - 1234 \Rightarrow x = \frac{252}{28} = 9$$

II. $\sqrt{1098y} + 2081 = 2345$

$$\Rightarrow 33y = 2345 - 2081 \Rightarrow y = \frac{264}{33} = 8$$

Clearly, $x > y$

53. (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. $2y^2 - 22y + 56 = 0$

$$\Rightarrow 2y^2 - 14y - 8y + 56 = 0$$

$$\Rightarrow 2y(y - 7) - 8(y - 7) = 0 \Rightarrow y = \frac{8}{2}, 7$$

54. (5) I. $x^2 + x - 20 = 0$

$$(x + 5)(x - 4) = 0$$

$$x = 4, -5$$

II. $y^2 - y - 30 = 0$

$$(y - 6)(y + 5) = 0$$

$$y = -5, +6$$

no relation

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

$\Rightarrow 15 - 9 = x^{\frac{1}{2} \cdot \frac{1}{2}} \Rightarrow x = 6$

$\Rightarrow y^{10} - (36)^5 = 0$

$\Rightarrow y^{10} = (36)^5 \Rightarrow y^{10} = 6^{10} \Rightarrow y = 6$

Clearly, $x = y$

56.(2) According to the options, 253 is right option.

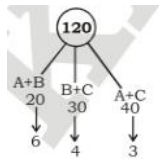
i.e. $352 - 253 = 99$ and $2 + 5 + 3 = 10$ and $2 + 3 = 5$

57.(4) Required quantity of milk

$= 216 \times \left(1 - \frac{36}{216}\right)^2 = 216 \times \frac{5}{6} \times \frac{5}{6} = 150$ litres

58.(1) Required % = $\left(\frac{16-9}{16} \times 100\right)\% = 43.75\% \approx 44\%$

59.(4)



\therefore A, B and C complete the work in $\frac{120 \times 2}{13} = \frac{240}{13}$ days

\therefore A completes the work in $1 \div \left(\frac{13}{240} - \frac{1}{30}\right) = 48$ days

C completes the work in $1 \div \left(\frac{13}{240} - \frac{1}{20}\right) = 240$ days

\therefore Required ratio = $48 : 240 = 1 : 5$

60.(1) $R = 15\% = \frac{3}{20}$

$\frac{20}{20} \quad \frac{23}{23}$

$\frac{20}{20} \quad \frac{23}{23}$

$P = 8000 \quad 12167 = A$

$CI = 12167 - 8000 = 4167$

Now, 4167 unit = Rs.6500.52

8000 units = $\frac{6500.52}{4167} \times 8000 = \text{Rs.}12,480$

61.(1) $4\frac{1}{2} - 2\frac{5}{6} = ? - 1\frac{7}{12}$

$\Rightarrow \frac{9}{2} - \frac{17}{6} = ? - \frac{19}{12} \Rightarrow \frac{27-17}{6} = ? - \frac{19}{12}$

$\Rightarrow ? = \frac{10}{6} + \frac{19}{12} \Rightarrow ? = \frac{39}{12} = 3\frac{1}{4}$

62.(2) $99.9 + 9.99 + 0.99 + 99.09 + 9.09 + 999 = ?$

$\Rightarrow ? = 1218.06$

63.(3) $4\frac{2}{3} + 7\frac{1}{6} - 5\frac{2}{9} = ?$

$\Rightarrow ? = \frac{14}{3} + \frac{43}{6} - \frac{47}{9} = \frac{84 + 129 - 94}{18} = \frac{119}{18} = 6\frac{11}{18}$

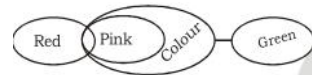
64.(4) 65% of 240 + ?% of 150 = 210

$\Rightarrow 240 \times \frac{65}{100} + \frac{?}{100} \times 150 = 210 \Rightarrow ? = \frac{54 \times 100}{150} = 36$

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

$\Rightarrow \frac{2}{3} \times \frac{2}{5} \times \frac{75}{100} \times 540 = ? \Rightarrow ? = 378$

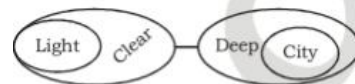
66.(2)



I. False II. True

Only II follows

67.(1)



I. True II. False

Only I follows

68.(2)



I. False II. True

Only II follows

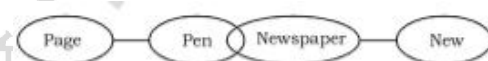
69.(2)



I. False II. True

Only II follows

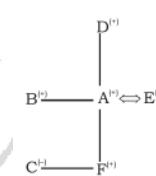
70.(4)



I. False II. False

Neither I nor II follows

71-73.



71.(3)

74-78.

72.(4)

73.(1)

Floor	Person	Bank
8	A	Canara Bank
7	F	Bank of India
6	H	Central Bank of India
5	E	Dena Bank
4	B	Bank of Baroda
3	C	State Bank of India
2	G	Syndicate Bank
1	D	Punjab National Bank

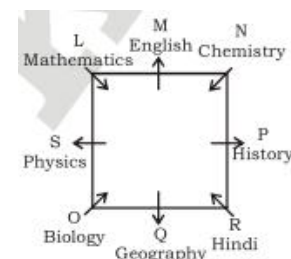
74.(4)

75.(1)

76.(3)

77.(4)

78.(5)



79.(1)

80.(3)

81.(5)

82.(5)

83.(5)

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84-88.

Day	Person	Country
Monday	R	USA
Tuesday	S	Russia
Wednesday	V	UAE
Thursday	T	China
Friday	Q	Dubai
Saturday	U	Japan
Sunday	P	UK

84. (3)

85. (5)

86. (1)

87. (4)

88. (2)

89-93.

→ ≤

% → =

& → <

% → ≥

89. (1)

Z ≥ X > W = V

I. Z > V → True

II. X = V → False

III. V ≤ Z → False

Only I is true

90. (4)

B > X ≤ F ≥ H

I. F > B → False

II. H = X → False

III. H ≤ B → False

None is true

91. (3)

Z < S > T ≥ U

I. U ≤ S → False

II. T < Z → False

III. S > U → True

Only III is true

92. (2)

K = H ≤ G < I

I. H < I → True

II. G ≥ K → True

III. K ≤ I → False

I and II are true

93. (3)

T > Y ≥ G ≤ W

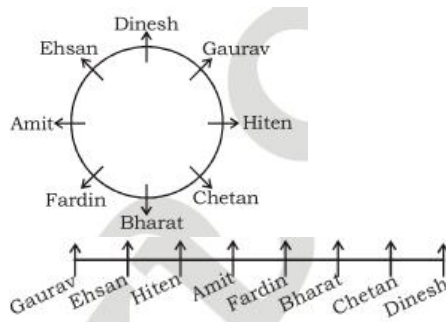
I. G = T → False

II. T < G → False

III. T > G → True

Only III is true

94-98.



94. (2)

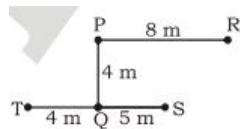
95. (1)

96. (4)

97. (3)

98. (2)

99-100.



99. (1)

100. (3)