SBI Clerk Preliminary Grand Test –SCP-220909
HINTS & SOLUTIONS

ANSWER KEY

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

HINTS & SOLUTIONS

1. (3) Refer the second and third-last sentences of the last paragraph, "This is in marked contrast to the western concept of life as a constant struggle against disease, ageing and death which must be fought and conquered with the knowledge and technology derived from their science: a science which, with its narrow dissective and quantifying approach, has provided us the understanding of the microbial causes of communicable diseases and provided highly effective technology for their prevention, treatment and control. This can rightly be claimed as the greatest contribution of western medicine and justifiably termed as 'high' technology." Hence only option (A) follows.

2. (3) Refer the first sentence of the second paragraph, "Till recently, patients had implicit faith in their physician whom they loved and respected, not only for his knowledge but also in the total belief that practitioners of this noble profession, guided by ethics, always placed the patient's interest above all other considerations."

3. (3) Refer the first paragraph of the passage, "While health which connotes well-being and the absence of illness has a low profile, it is illness representing the failure of health which virtually monopolizes attention because of the fear

of pain, disability and death. Even Sushruta has warned that this provides the medical practitioner power over the patient which could be misused."

4. (1) Refer the first and second sentences of the passage, "There is no field of human endeavour that has been so misunderstood as health. While health which connotes well-being and the absence of illness has a low profile, it is illness representing the failure of health which virtually monopolizes attention because of the fear of pain, disability and death."

5. (5) Refer the last sentence of the second paragraph, "Healthy practices like cleanliness, proper diet, exercise and meditation are part of our culture which sustains people even in the prevailing conditions of poverty in rural India and in the unhygienic urban slums."

6. (4) Refer the last sentence of the third paragraph and the first sentence of the fourth paragraph, "They also teach the graceful acceptance of old age with its infirmities resulting from the normal degenerative process as well as of death which is inevitable. This is in marked contrast to the western concept of life as a constant struggle against disease…"

7. (5) Refer the last sentence of the passage, "And yet the contribution of this science in the field of non-communicable diseases is remarkably poor despite the far greater inputs in research and treatment for the problems of ageing like cancer, heart diseases, paralytic strokes and arthritis which are the major problems of affluent societies today."

8. (2) The author simply analyzes the basic approaches of the two systems.

9. (1) It can be inferred from the second sentence of the passage, "While health which connotes well-being and the absence of illness has a low profile, it is illness representing the failure of health which virtually monopolizes attention because of the fear of pain, disability and death."

10. (4) **Inevitable** means certain to happen; unavoidable. Hence '**avoidable'** and '**inevitable'** are opposite in meanings.

11. (3) **Concerned** means worried, troubled, or anxious. Hence '**concerned'** and '**indifferent'** are opposite in meanings.

12. (1) **Degenerative** means of or tending to decline and deterioration. **Recuperative** means having the effect of restoring health or strength. Hence '**degenerative'** and '**recuperative'** are opposite in meanings.

13. (5) **Connotes** means (of a fact) imply as a consequence or condition. Hence '**connotes'** and '**implies'** are similar in meanings.

14. (3) **Aberration** means a departure from what is normal, usual, or expected, typically an unwelcome one. Hence '**aberration'** and '**deviation'** are similar in meanings.

15. (4) **Derived** means obtain something from (a specified source). Hence '**derived'** and '**processed'** are similar in meanings.

16-20. The proper sequence of sentences to make a meaningful paragraph will be **EDBCAF**.

16. (4)   17. (3)
18. (1)   19. (5)   20. (5)

21. (5)   **22.** (4)

23. (1)   **24.** (2)   **25.** (3)

26. (2)   **27.** (4)

28. (3)   **29.** (1)   **30.** (5)

31. (2) $\times 2 - 1, \times 4 - 3, \times 6 - 5, \times 8 - 7, \times 10 - 9 \ldots$

$3073 \times 10 - 9 = 30730 - 9$

$? = 30721$

32. (1)

$? = 252 + 26 = 278$

33. (2) $+ 2.8, + 4, + 5.2, + 6.4, + 7.6$

$105 + 64 = 111.4$

34. (3)   34   36   41   51   68   94

    2   5   10   17   26

     3   5   7   9

35. (2)   Two alternative series.

102, 104, 106

99, 97, 95

36. (1)   replaced first tap can fill tank in $= \frac{1}{4} \times 12 = 3$ minutes

Replaced second tap can fill tank in $= 4 \times 15 = 60$ minutes

Both taps can fill it together in

$= \dfrac{1}{\frac{1}{3} + \frac{1}{60}}$

$= 2\frac{6}{7}$ minutes

37. (3) $4\,m + 6\,w = \frac{1}{8} \left[\begin{array}{l} m - 1 \ man \ per \ day \ work \\ w - 1 \ woman \ per \ day \ work \end{array}\right]$

$3\,m + 7\,w = \frac{1}{10}$

eq(2) $\times 4$ – eq (1) $\times 3$, $10\,w = \frac{1}{40}$

or 10 women will complete the work in 40 days

38. (1)   C per day work $= \frac{1}{6} - \left(\frac{1}{16} + \frac{1}{24}\right)$

$= \frac{1}{16}$

Ratio of efficiency $= \frac{1}{16} : \frac{1}{24} : \frac{1}{16}$

$= 3 : 2 : 3$

Amount received By A, B and C = 150, 100, 150

39. (2)   (i) Let there are 0 ladies in men's relatives and 0 gentlemen in his wife's relatives

$3_{C_3} \times 3_{C_3} = 1$

(ii) Let there are 1 lady and 2 gentlemen in man's relatives and 2 ladies and 1 gentlemen in wife's relatives

$4_{C_1} \times 3_{C_2} \times 3_{C_2} \times 4_{C_1} = 144$

(iii) Let there are 2 ladies and 1 gentlemen in man's relatives and 1 lady and 2 gentlemen in wife's relatives

$4_{C_2} \times 3_{C_1} \times 3_{C_1} \times 4_{C_2} = 324$

(iv) Let there are 3 ladies in man's relatives and 3 gentlemen in his wife' relatives

$4_{C_3} \times 4_{C_3} = 16$

Total no. of ways = 485

40. (2)   Required probability $= \frac{1}{4} \times \frac{3}{5} \times \frac{4}{7} + \frac{3}{4} \times \frac{2}{5} \times \frac{4}{7} + \frac{3}{4} \times \frac{3}{5} \times \frac{3}{7}$

$= \frac{63}{140} = \frac{9}{20}$

41. (5)   Required ratio = 55 : 45 = 11 : 9

42. (1)   No of women = 966 + 1449 + 5796 +

1932 + 2254 + 966 = 13363

Required average $= \frac{13363}{6} \approx 2227$

43. (4)   Total number of men = 40250 - 13363 = 26887

44. (2)   Required percentage

$= \frac{1449}{40250} \times 100 = 3.6\%$

45. (3)   Required difference = 26887 - 13363 = 13524

46. (1)   Required average $= \frac{2700}{6} = 450$

47. (2)   Required ratio = 500 : 400 : 550 = 10 : 8 : 11

48. (3)   Required % $= \frac{250 - 200}{200} \times 100 = 25\%$

49. (1)   Required answer

$= \frac{80}{100} \times 800$

$= 640$

50. (4)   Required percentage

$= \frac{1050}{600} \times 100$

$= 175\%$

51. (4)   G : P : B

    4 : 6 : 5

Now, G : P : B

$= \left(4x - \frac{4}{15} \times 15 + 8\right) : \left(6x - \frac{6}{15} \times 15 + 2\right) : \left(5x - \frac{5}{15} \times 15\right)$

$= (4x + 4) : (6x - 4) : (5x - 5)$

$\therefore 6x - 4 - 4x - 4 = 10$

$2x - 8 = 10$

$x = 9$

$\therefore$ Initial quantity of mixture in the vessel $= 9 \times 15$

$= 135$ litre

52. (5)   Pia's monthly salary $= \frac{2100}{7} \times 100$

$= 30000$ Rs.

Monthly salary of Som $= \frac{30,000}{5} \times 4 = 24000$ Rs.

53. (4) $20\% + 30 = 32\% - 42$

$12\% = 72$

$100\% = 600$

Maximum marks = 600

Pass marks $= \frac{20}{100} \times 600 + 30 = 150$

Percentage of pass marks $= \frac{150}{600} \times 100$

$= 25\%$

54. (4)   Let Total number of votes be 100

Number of uncast votes = 8

Number of vote polled = 92

Number of votes obtained by the winner = 48

Number of votes obtained by loser = 48 - 44 = 4

If the difference of win be 4 votes,

Total voters = 100

When the difference be 1100 votes, total voters $= \frac{100}{4} \times 1100 = 27500$

55. (5)   Amount after 6 years $= 24000 + \frac{24000 \times 4 \times 6}{100}$

$= 24000 + 5760$

$= 29760$ Rs.

Required S.I. $= \frac{29760 \times 4 \times 4}{100}$

$= 4761.6$

56. (5)   I. $a^2 + 5a + 6 = 0$

$\Rightarrow a^2 + 2a + 3a + 6 = 0$

$\Rightarrow a(a + 2) + 3(a + 2) = 0$

$\Rightarrow (a + 2)(a + 3) = 0$

$\Rightarrow a = -2 \ or \ -3$

II. $b^2 + 3b + 2 = 0$

$\Rightarrow b^2 + 2b + b + 2 = 0$

$\Rightarrow b(b + 2) + 1(b + 2) = 0$

$\Rightarrow (b + 1)(b + 2) = 0$

$\Rightarrow b = -1 \ or \ -2$

$\therefore a \le b$

57. (1)   I. $2a^2 + 3a + 1 = 0$

$\Rightarrow 2a^2 + 2a + a + 1 = 0$

$\Rightarrow 2a(a + 1) + 1(a + 1) = 0$

$\Rightarrow (a + 1)(2a + 1) = 0$

$\Rightarrow a = -1 \ or \ -\frac{1}{2}$

II. $12b^2 + 7b + 1 = 0$

$\Rightarrow 12b^2 + 3b + 4b + 1 = 0$

$\Rightarrow 3b(4b + 1) + 1(4b + 1) = 0$

$\Rightarrow (3b + 1)(4b + 1) = 0$

$\Rightarrow b = -\frac{1}{3} \ or \ -\frac{1}{4}$

$\therefore a < b$

58. (3)   I. $a^2 = 4 \Rightarrow a = \pm 2$

II. $b^2 = 9 \Rightarrow b = \pm 3$

59.(2)
I. $6a^2 - 25a + 25 = 0$
$\Rightarrow 6a^2 - 15a - 10a + 25 = 0$
$\Rightarrow 3a(2a - 5) - 5(2a - 5) = 0$
$\Rightarrow (3a - 5)(2a - 5) = 0$
$\Rightarrow a = \frac{5}{3} \, or \, \frac{5}{2}$
II. $15b^2 - 16b + 4 = 0$
$\Rightarrow 15b^2 - 10b - 6b + 4 = 0$
$\Rightarrow 5b(3b - 2) - 2(3b - 2) = 0$
$\Rightarrow (5b - 2)(3b - 2) = 0$
$\Rightarrow b = \frac{2}{5} \, or \, \frac{2}{3}$
$\therefore a > b$

60.(4)
I. $4a^2 - 20a + 21 = 0$
$\Rightarrow 4a^2 - 14a - 6a + 21 = 0$
$\Rightarrow 2a(2a - 7) - 3(2a - 7) = 0$
$\Rightarrow (2a - 7)(2a - 3) = 0$
$\Rightarrow a = \frac{7}{2} \, or \, \frac{3}{2}$
II. $2b^2 - 5b + 3 = 0$
$\Rightarrow 2b^2 - 3b - 2b + 3 = 0$
$\Rightarrow b(2b - 3) - 1(2b - 3) = 0$
$\Rightarrow (b - 1)(2b - 3) = 0$
$\Rightarrow b = 1 \, or \, \frac{3}{2}$
$\therefore a \geq b$

61. (5) Income of walmart in 2008 $\Rightarrow$

$36 = \frac{x - 16.5}{16.5} \times 100$
$594 = 100x - 1650$
$100x = 2244$
$x = 22.44$ lakh
income of Big Bazar in 2008 $\Rightarrow 40 = \frac{y - 20.8}{20.8} \times 100$
$832 = 100y - 2080$
$100y = 2912$
$y = 29.12$
Total time $= 22.44 + 29.12$
$= 51.56$ lakhs

62. (1)
$45 = \frac{24.36 - x}{x} \times 100$

$45x = 2436 - 100x$
$145x = 2436$
$x = 16.8 =$ expenditure of walmart
And, $35 = \frac{18.36 - y}{y} \times 100$
$35y = 1836 - 100y$
$135y = 1836$
$y = 13.6 =$ expenditure of Big Bazar
Total Required expenditure $= 16.8 + 13.6 = 30.4$ lakhs

63. (2) Let equal quantity $= x$

$\therefore 25 = \frac{w - x}{x} \times 100$
$25x = 100 \times (w) - 100x$
$100w = 125x$
$w = \frac{125x}{100} = \frac{5x}{4} =$ income of walmart in 2009
And, $25 = \frac{x - B}{B} \times 100$
$25B = 100x - 100B$
$125B = 100x$
$B = \frac{4x}{5} =$ expenditure of Big Bazar in 2013
$\therefore$ Required Ratio $= \frac{5}{4} : \frac{4}{5}$
$= 25 : 16$

64. (3) let expenditure is 'x'

Income of walmart in 2012 $= \frac{27x}{20}$

Income of Big Bazar in 2009 $= \frac{6x}{5}$

$\therefore$ Required % $= \frac{27x}{20} \times \frac{5}{6x} \times 100$
$= \frac{900}{8}$
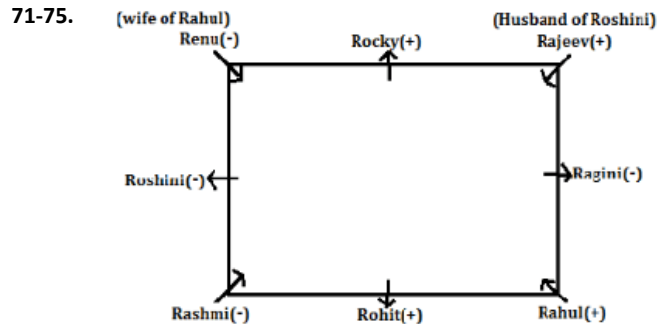$= 112.5\%$

65. (3) Required year = 2010

66. (2) **Input: 'ask for me 49 32 64 and 24'**
Step I: me ask for 49 32 64 and 24
Step II: me 24 ask for 49 32 64 and
Step III: me 24 for ask 49 32 64 and
Step IV: me 24 for 32 ask 49 64 and
Step V: me 24 for 32 ask 49 and 64

67. (2) **Input: 'go now and come 72 34 57 25'**
Step I: now go and come 72 34 57 25
Step II: now 25 go and come 72 34 57
Step III: now 25 go 34 and come 72 57
Step IV: now 25 go 34 come and 72 57
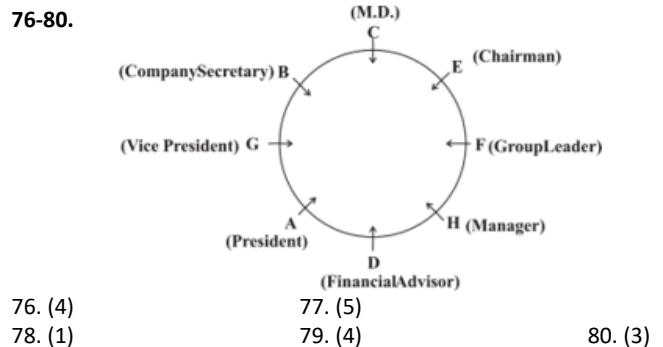Step V: now 25 go 34 come 57 and 72

68. (2) Step III: yellow 12 tire 92 84 36 goal life
Step IV: yellow 12 tire 36 92 84 goal life
Step V: yellow 12 tire 36 life 92 84 goal
Step VI: yellow 12 tire 36 life 84 92 goal
Step VII: yellow 12 tire 36 life 84 goal 92

69. (1) Step IV: now 17 mother 23 can know 47 31
Step V: now 17 mother 23 know can 47 31
Step V: now 17 mother 23 know 31 can 47

70. (1) Step II: victory 19 22 34 age bear high 24
Step III: victory 19 high 22 34 age bear 24
Step IV: victory 19 high 22 bear 34 age 24
Step V: victory 19 high 22 bear 24 34 age
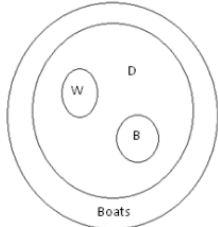Step VI: victory 19 high 22 bear 24 age 34

71-75.

(wife of Rahul) Renu(-) Rocky(+) Rajeev(+) (Husband of Roshini)
Roshini(-) Ragini(-)
Rashmi(-) Rohit(+) Rahul(+)

71. (5)   **72. (3)**
73. (3)   **74. (1)**   **75. (2)**

76-80.

(M.D.) C — E (Chairman)
(CompanySecretary) B
(Vice President) G — F (GroupLeader)
A (President) — H (Manager)
D (FinancialAdvisor)

76. (4)   **77. (5)**
78. (1)   **79. (4)**   **80. (3)**

81-85.

Person	Profession	Floor
Akshay	Doctor	6
Shahrukh/Arjun	Engineer	5
Tiger	Journalist	4
Varun	Lawyer	3
Ranveer	Architect	2
Arjun/Shahrukh	Teacher	1

81. (2)   **82. (2)**
83. (3)   **84. (1)**   **85. (4)**

86. (4) All follow

Boats

87. (4) Only either II or III follow

Desk / Chairs / Pens / Draw--ers

88. (1) I and II follow

Flowers / Houses / Trees / Wheels

89. (4) All follow

Radio / Tele-phone / Desks / Mirrors

90. (2) Only II follows

Jungle / Furniture / Road / Hill
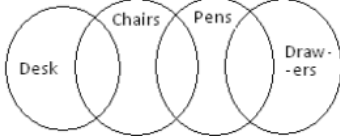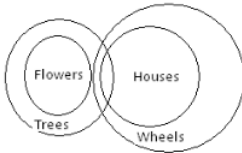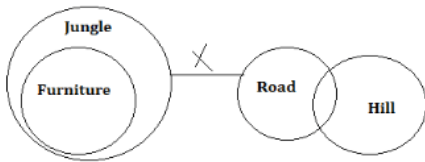
91. (3) Code for 'pa' is me. Either statement I or II is sufficient.

92. (4) From both statements, relation between seema and mangesh cannot be determined.

93. (1) Only statement I is sufficient.

94. (5) From both statements, we can find that S is lowest.

95. (5) A runs fastest. Both I and II are necessary to answer the question.

96-100. **Rule I.** If the word is of 5 letters:
(i) All the consonants are replaced by (730).
(ii) If there is a single vowel, then it is replaced by (130).
(iii) If there are more than one vowel and they are different, then they are replaced by (150).
(iv) If there are more than one vowel and they are same, then they are replaced by (170).
Rule II. If the word is of 6 letters:
(i) All the consonants are replaced by (850).
(ii) If there is a single vowel, then it is replaced by (225).
(iii) If there are more than one vowel and they are different, then they are replaced by (125).

96. (4)

A	N	I	K	E	T
[125]	[850]	[125]	[850]	[125]	[850]

97. (1)

S	P	E	E	D
[730]	[730]	[170]	[170]	[730]

98. (2)

C	R	W	T	H
[730]	[730]	[730]	[730]	[730]

99. (1)

R	H	Y	T	H	M
[850]	[850]	[850]	[850]	[850]	[850]

100. (3)

D	H	A	M	S	T
[850]	[850]	[225]	[850]	[850]	[850]