SBI PO Preliminary Grand Test –SPP-180646
HINTS & SOLUTIONS

ANSWER KEY

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

HINTS & SOLUTIONS

1. (5) Phrase palm something off means to tell somebody that something is better than it is, especially in order to sell it.

2. (4) They believe that these institutions have the requisite knowledge and will act only in favour of the general public.

3. (2) As the institution is responsible for not encouraging examiners to venture outside the rote process.

4. (2) Little Deceptions Add to Larger Trust-Deficit.

5. (1) Examiners are not devoted to their jobs.

6. (5) Refer to second paragraph of the passage.

7. (2) **Premium** means very high; of high quality; extra. So, extra is the correct word which is similar in meaning to it.

8. (3) **Recount** means to tell somebody about something; especially something that you have experienced. So, narrated is the correct word which is similar in meaning to it.

9. (3) **Repeat** means an event that is very similar to something that happened before; to happen again. So, new is the correct word which is opposite in meaning to it.

10. (4) **Unskilled** means not having or needing special skills or training. So, trained is the correct word which is opposite in meaning to it.

11. (5)   12. (3)
13. (4)   14. (2)

15. (1) 'sufferings' would be used with the preposition 'of'; i.e. 'sufferings of the asteroid impact'. Hence, 'apprehension' is required.

16. (3) 'time may be used as; well before in time'

17. (5)

18. (2) 'away from the Earth's surface' makes it clear that the correct word should be 'deflecting'.

19. (4) It can be experienced only after it reaches the Earth's surface. 'To perceive' is 'to see something as something (else). Hence, this is also not the appropriate option.

20. (1)

21. (2) Replace 'can' with 'could'

22. (5) No error

23. (4) Insert 'other' after 'any'

24. (4) Replace 'corpse' with 'corpus'

25. (4) Replace 'which' with 'who'

26. (5) The correct sequence is **GBADCFHE**.

27. (2) B   28. (4) C

29. (5) H   30. (1) E

31. (3)
$$x_1 = \frac{-13}{3}, x_2 = \frac{-2}{3}$$
$$y_1 = 9, y_2 = \frac{-4}{7}$$
$$\therefore x < y$$

32. (1)
$$x = +ve$$
$$y = -ve$$
$$\therefore x > y$$

33. (4)
$$x = 49$$
$$y = \pm 49$$
$$\therefore x \geq y$$

34. (5)
$$x_1 = 3.5, x_2 = -3$$
$$y_1 = -9, y_2 = \frac{-7}{3}$$
$$\therefore \text{No relation}$$

35. (5)
$$x_1 = -0.5$$
$$x_2 = \frac{-4}{3}$$
$$y_1 = +1$$
$$y_2 = \frac{(-3)}{4}$$
$$\therefore \text{No relation}$$

36. (1) Equalted rate of interest for 4 years
$$= 6 + 6.5 + 7 + 7.5$$
$$= 13 + 14 = 27$$
$$\therefore \text{Required loan} = \frac{3375}{27} \times 100$$
$$= 12500 \text{ Rs.}$$

37. (3) Given $\pi r^2 = 98.56$
$$\frac{22}{7} r^2 = 98.56$$
$$r^2 = \frac{89.6}{2} \times 7$$
$$= 44.8 \times 7$$
$$r^2 = 313.6$$
$$r = 5.6 ft$$
Required cost $= 2\pi r \times 614$
$$= 2 \times \frac{22}{7} \times 5.6 \times 614$$
$$= 2 \times 22 \times 0.8 \times 614$$
$$= 21612.8 \text{ Rs.}$$

38. (2)

Aman	Vimal	Raman
117	90	100

$307 \rightarrow 6447$

$1 \rightarrow \dfrac{6447}{307}$

$117 \rightarrow \dfrac{6447}{307} \times 117 = 21 \times 117 = 2457$ Rs.

39. (1)

$\dfrac{336}{x} \times 100 = \dfrac{192}{400} \times 100$

$x = \dfrac{336 \times 400}{192}$

$x = 700$

40. (4)

AC (in 1 hr) $\rightarrow$ 16 units

Bulb (in 1 hr) $\rightarrow 18 \times 6 = 3$ units

In 1 hr both will consume $= (16 + 3) \times 8 \times 10$

$= 80 \times 19$

$= 1520$ units

41. (3)

January $\rightarrow 50 + 25 + 10 = 85$

Feb $\rightarrow 115$

March $\rightarrow 135$

April $\rightarrow 180$

May $\rightarrow 205$

June $\rightarrow 300$

Clearly, May has second highest no. of users.

42. (1)

Twitter users in May & June $= 60 + 100 = 160$

Facebook users in June $= 150$

Required $= \dfrac{160-150}{150} \times 100 = 6.67\%$

43. (5)

Total users in March and April $= 180 + 135 = 315$

Total facebook users in all months

$= 50 + 60 + 80 + 100 + 120 + 150 = 560$

Ratio $= \dfrac{315}{560} = 9 : 16$

44. (5)

Total no. of facebook users all over the months $= 560$

Total users $= 85+115+135+180+205+300=1020$

Required % $= \dfrac{560}{1020} \times 100 \approx 55\%$

45. (2)

Social Media users in January $= 85$

Total no. of linkedin users in March, May and June

$= 20 + 25 + 50 = 95$

Difference $= 255 - 95 = 160$

46. (1)

$\dfrac{20\% \text{ of } 2040}{20\% \text{ of } 1450} = 204 : 145$

47. (5)

12% of 1450 = 174

48. (3)

No of children in village M and N together

$= (25 + 10)\%$ of $2040 = 714$

No of children attending school from village M and N together $= (32 + 12)\%$ of $1450 = 638$.

Required No. of Children $= 714 - 638 = 76$

49. (3)

55 % of 2040 = 1122

50. (5)

Required percentage

$= \dfrac{1450 \times \frac{14}{100}}{2040 \times \frac{15}{100}} \times 100 \cong 66\%$

51. (2)

Assume subscript L for last year and subscript P for present year. i.e. ML for last year salary of Mahesh...

Given

$\dfrac{M_L}{S_L} = \dfrac{3}{5}$ ... (i)

& $\dfrac{M_L}{M_P} = \dfrac{2}{3}$ ... (ii)

& $\dfrac{S_L}{S_P} = \dfrac{4}{5}$ .... (iii)

On dividing eqⁿ. 2 by eqⁿ. 3

$\Rightarrow \dfrac{M_L \times S_P}{M_P \times S_L} = \dfrac{2 \times 5}{3 \times 4} = \dfrac{5}{6}$

$\Rightarrow \dfrac{M_L}{S_L} \times \dfrac{S_P}{M_P} = \dfrac{3}{5} \times \dfrac{S_P}{M_P} = \dfrac{5}{6}$ (from eqⁿ(i))

$\Rightarrow \dfrac{S_P}{M_P} = \dfrac{5 \times 5}{6 \times 3} = \dfrac{25}{18}$

$\therefore$ present salary of Mahesh $= \dfrac{18}{25+18} \times 43000$
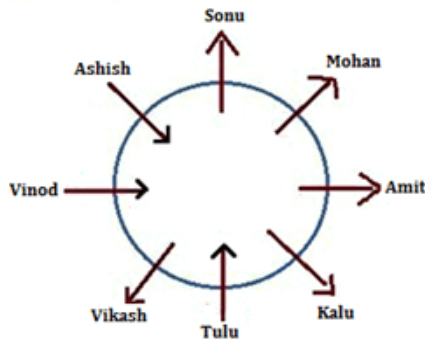
$=$ Rs 18000

52. (1)

Let slower train moves with x km/hr . Hence speed of faster train will be (x + 6) kmph

$\therefore (x+ x+ 6) \times 5 = 160$

Or, $10x + 30 = 160$

Or, $x = 13$

$\therefore$ speed of faster train $= 13 + 6 = 19$ km/hr

53. (1)

Due to reduced efficiency, their per day work is

$\dfrac{90}{100 \times 9} = \dfrac{1}{10}$ for A and $\dfrac{72}{100 \times 18} = \dfrac{1}{25}$ for B

$\therefore$ Time taken to complete the work $= \dfrac{1}{\frac{1}{10} + \frac{1}{25}}$

$= \dfrac{50}{7}$ i, e, $7\dfrac{1}{7}$ days

54. (1)

Work done in first 4 days $= 4 \times \left(\dfrac{1}{48} + \dfrac{1}{72} + \dfrac{1}{96}\right) = \dfrac{260}{1440}$

Work done in last 3 days $= 3 \times \dfrac{1}{72} = \dfrac{60}{1440}$

Remaining work $= 1 - \left(\dfrac{260}{1440} + \dfrac{60}{1440}\right) = \dfrac{1120}{1440}$

This remaining work was completed by A and B

A and B per day work $= \dfrac{1}{48} + \dfrac{1}{72} = \dfrac{25}{720}$

No. of days for which A and B worked $= \dfrac{\frac{1120}{1440}}{\frac{25}{720}} = 22\dfrac{2}{5}$ days

Total no. of days $= 4 + 3 + 22\dfrac{2}{5} = 29\dfrac{2}{5}$ days

55. (3)

Let the bowler takes x wickets till last match

So, $24(x + 5) - 24.85x = 52$

Or, $120 - 0.85x = 52$

Or, $x = 80$ wickets

56. (4)

Pattern is $13^2 + 1, 11^2 - 1, 7^2 + 1, 5^2 - 1, 3^2 + 1, 2^2 - 1$

57. (2)

Pattern is $+89, -79, +69, -59, +49$

58. (3)

77	81	95	125	177	257

$+4 \quad +14 \quad +30 \quad +52 \quad +80$

$+10 \quad +16 \quad +22 \quad +28$

$+6 \quad +6 \quad +6$

59. (5)

There are two mix series

$\times 2 \quad\quad \times 2$

11	14	33	28	99	56

$\times 3 \quad\quad \times 3$

60. (3)

Pattern is $T_{n+1} = T_n \div 2 - 6$

61. (5)

$325 \times \dfrac{16}{4} + 37 \approx 1340$

62. (1)

$\dfrac{69}{100} \times 700 + \dfrac{33}{100} \times 400 = 483 + 132 = 615$

63. (3)

$\dfrac{180}{100} \times 25500 + \dfrac{1}{2} \times 29000 = 45900 + 14500 = 60400$

64. (1)

$15.5 \times 8.5 + 25 \times 6.5 \approx 295$

65. (1)

$4735 - 3454 - 1613 + 1611 = 1279 \approx 1280$

66. (2)

Only II and IV are true

$S \geq U > B \geq C < A = D \geq T$

67. (2)

Only II is true

$E < D < F > C \geq A = B$

68. (4)

Either I or IV and II are true

$D = C \leq M < N = A > I$

69. (3)

Only III true

$P < A > S \leq M < T = B = Q$

70. (4)

Only II is true $H = Y \leq N = F > X \leq J < I$

$Q > S > P > T > R$

71 – 75.

71. (1)   72. (1)
73. (4)   74. (3)   75. (4)
76. (2) Argument I does not go properly into the reason. Hence I is not strong. But argument II is strong because it mentions how the move will bring good results.
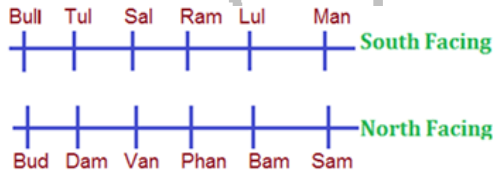77. (1) I is strong. No doubt, awareness of farmers will impact positively on agriculture produce. But the Statement does not mention whether these call centres will provide free services or not. Hence II is not strong.
78. (5) Both are strong because films create strong impression both on the positive and on the negative sides.
79. (4)
80. (5) Argument I is strong if you keep in mind the accessibility factor. But II is also strong because it will have a negative, undesirable impact on the economy of the country.

(81 – 85):

81. (4) Bull, Sam
82. (2) Two
83. (5) Bud, Van and Dam
84. (3) faces the one who is second to right of Ram
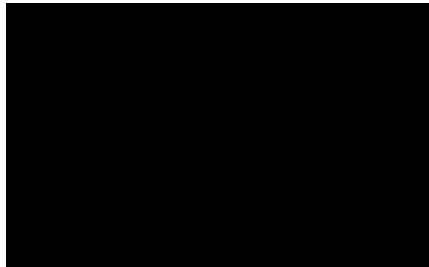85. (5) None of these
86 – 88. D > A > C > E > F > B
86. (1)   87. (5)
88. (2)   89. (1)
90. (4) Child write with "Pencil" and pencil is called "Sharpner".
91 – 95.

91. (2)   92. (5)
93. (1)   94. (1)   95. (3)
96. (4)   97. (2)
98. (5)   99. (2)   100. (5)

3