SBI PO Preliminary Grand Test –SPP-180312

HINTS & SOLUTIONS

ANSWER KEY

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

HINTS & SOLUTIONS

1. (3) They are wary of cumber-some police formalities and legal systems
2. (1) Manmade disasters occur more frequently than natural disasters.
3. (4) The government is apathetic and has not managed to handle disasters effectively
4. (2) Lack of disaster management training for medical staff
5. (2) Their working together to manage disasters completely keeping public interests in mind
6. (2) Both (B) and (C)
7. (2) The meaning of the word Infringe (Verb) as used in the passage is : to break a law or rule: to limit somebody's legal rights.
Look at the sentences :
The material can be copied without infringing copyright.
She refused to answer questions that infringed on her private affairs.
Of the given alternative, the word Violate means : to against or refuse to obey a law, an agreement etc; to disturb or not respect somebody's peace or privacy.
Hence, the words infringing and violating are synonymous.
8. (3) The meaning of the word Frequency (Noun) as used in the passage is : the rate at which something happens or is repeated.
Look at the sentences :
Fatal road accidents have decreased in frequency over recent years.
Objects like this turn up at sales with surprising frequency.
The word Recurrence (Noun) means : if there is a recurrence of something, it happens again.
Look at the sentences :
Attempts are being made to prevent a recurrence of the problem.
Hence, the words frequency and recurrence are synonymous.
9. (2) The meaning of the word Lethargic (Adjective) as used in the passage is : the state of not having any energy or enthusiasm for doing things; inactive; inertial.
Look at the sentences :
The weather made him lethargic.
Hence, the words lethargic and active are antonymous.
10. (4) `The meaning of the word Dismal (Adjective) as used in the passage is : causing or showing sadness, gloomy, miserable; not skilful or successful.
Look at the sentences :
The recent attempt to increase production has been a dismal failure.
The singer gave a dismal performance of old songs. .
The word Animated (Adjective) means : full of interest and energy: lively.
Hence, the words dismal and animated are antonymous.
11. (1) variables 12. (3) jeopardize
13. (2) reckoning 14. (2) bringing
15. (1) shame
16. (5) E 17. (1) A
18. (3) C 19. (4) D
20. (2) B
21. (3) 22. (1)
23. (3) 24. (5) 25. (3)
26. (3) Plural subject agrees with plural verb. Hence, system and need to should be used.
27. (4) Here, passive voice should be used. Hence, replace which is yet to take by which is yet to be taken.
28. (2) Here, gerund should be used. Hence, process of finalising new policy should be used.
29. (2) Here, `world's leader manufacturer' should be replaced by world's leading manufacturer. The word leading is an Adjective.
30. (1) The word 'per cent' is followed by preposition 'of. Hence, over eighty per cent of us should be used.
31. (3) $x = \frac{5}{3}, \frac{3}{2}$
$y = \frac{7}{5}, \frac{3}{2}$

$\therefore$ Clearly $x \geq y$

32. (4) $x = \frac{7}{4}, \frac{-8}{3}$; $y = 2, \frac{7}{4}$

$\therefore$ Clearly $x \leq y$

33. (1) $x = \frac{-4}{3}, -3$

$y = -4, -5$

$\therefore$ Clearly $x > y$

34. (2) $x = \frac{7}{8}, 1$

$y = 2, \frac{3}{2}$

$\therefore$ Clearly $x < y$

35. (2) $x = 4$ and $y = 5$

$\therefore$ Clearly $x < y$

36. (4) The given data are inadequate.

37. (5) From statement II,
If the age of Rani = x years, then
Surekha's age = 2x years
$\therefore$ x + 2x = 72

$\Rightarrow$ 3x = 72 years $\Rightarrow$ $x = \frac{72}{3}$ = 24 years

Rani's age = 24 years
As per the given information in statement I, Nidhi's age can be determined.

38. (2) Statement I is superfluous.
From statement II,

Number of boys in the school $= 3500 \times \frac{60}{100} = 2100$

Number of boys in the school $= \frac{3500 \times 60}{100} = 2100$

$\therefore$ Required ratio = 2100 : 1400 = 3 : 2

39. (5) Let Mr. Mehta's present income be Rs. x
From statement I and II,

10% of x = 2500 $\Rightarrow x \times \frac{10}{100} = 2500$

$\Rightarrow$ x = 2500 $\times$ 10 = Rs. 25000

40. (3) From statement I,

Speed of the bus = $\frac{\text{Distance covered}}{\text{Time Taken}} = \frac{80}{5}$ = 16 kmph

As per the information in statement II, the speed of the bus can also be determined.

41. (1) Total no. of students passed from school A in all the years
= 240 + 350 + 360 + 300 + 320 = 1570
Total no. of students passed from school C in all the years
= 200 +240 + 210 + 250 + 280 = 1180
The sum of total students passed from A & C is
= 1570 + 1180 = 2750.

42. (2) No. of girls passed from school A in 2007 $= 350 \times \frac{3}{7} = 150$

No. of boys passed from school C in 2006 $= 200 \times \frac{3}{5} = 120$

Required ratio = 150 : 120 = 5 : 4

43. (2) No. of boys passed from school D in 2010

$= 640 \times \frac{5}{8} = 400$

Total passed students in that year = 640

Required percentage $= \frac{400}{640} \times 100 = 62.5\%$

44. (1) No. of girls passed from school D in 2008

$= 450 \times \frac{5}{9} = 250$

No. of girls passed from school B in 2010

$= 450 \times \frac{4}{9} = 200$

Required percentage

$= \frac{250 - 200}{200} \times 100 = \frac{50}{200} \times 100 = 25\%$

45. (1) Total number of books = 8 + 7 + 6 = 21
Let E be the event that the picked book is neither in Hindi nor in Urdu or the event that the book picked is i9n English
n(E) = 7

$\therefore p(E) = \frac{7}{21}$

46. (1) Total number of balls in the bag = 7 + 8 + 6 = 21
Total possible outcomes = Selection of 2 balls out of 21 balls.

$= {}^{21}C_2 = \frac{21 \times 20}{1 \times 2} = 210$

Favourable outcomes = Selection of 2 balls out of 7 red balls + selection of 2 balls out of 8 yellow balls =

${}^{7}C_2 + {}^{8}C_2$

$= \frac{7 \times 6}{1 \times 2} + \frac{8 \times 7}{1 \times 2}$

= 21 + 28 = 49

$\therefore$ Required probability $= \frac{49}{210} = \frac{7}{30}$

47. (2) Let the number of girls in the class be x.
Total weight of boys = 24x kg
Total weight of girls = (24x - 90) kg.
According to the question,

$\frac{24x + 24x - 90}{24 + x} = 25$

$\Rightarrow$ 48x – 90 = 25 $\times$ 24 + 25x

$\Rightarrow$ 48x – 25x = 600 + 90

$\Rightarrow$ 23x = 690

$\Rightarrow$ $\Rightarrow x = \frac{690}{23} = 30$

48. (1) 8 years hence,
Rashi's age = x years
$\therefore$ Trisha's age = 2xyears
$\therefore$ Rashi's present age
= (x - 8) years
Trisha's present age
= (2x – 8) years
According to the question,
x - 8 + 6 = 2x – 8 - 7
$\Rightarrow$ x – 2 = 2x – 15
$\Rightarrow$ 2x – x = 15 – 2
$\Rightarrow$ x = 13
$\therefore$ Required ratio = (x – 8 + 4) : (2x – 8 + 3)
= (x – 4) : (2x – 5) = (13 – 4) : (26 – 5) = 9 : 21 = 3 : 7

49. (1) C.P. of shoe-rack = Rs. x(let)
$\therefore$ C.P. of cupboard = Rs. 3x
C.P. of table = Rs. (3x – 2000)
S.P. of shoe-rack = Rs. $\left(\frac{118x}{100}\right)$
S.P. of cup board =Rs. $\left(\frac{3x\times 9}{100}\right)=`\left(\frac{270x}{100}\right)$
S.P. of table $=`\left(\frac{270x}{100}+1400\right)$
According to the question.
$\frac{118x}{100}+\frac{270x}{100}+\frac{270x}{100}+1400$
$=(x+3x+3x-2000)\times\frac{102.2}{100}$
$\Rightarrow$ 118x + 270x + 270x + 140000
= 7x × 102.2 – 2000 × 102.2
$\Rightarrow$ 658x + 140000 = 715.4x - 204400
$\Rightarrow$ 715.4x – 658x = 140000 + 204400
$\Rightarrow$ 57.4x = 344400
$\Rightarrow$ x = $\frac{344400}{57.4}=`6000$

50. (2) Let the required amount be Rs. (6300+x).
S.I. = $\frac{\text{Principal}\times\text{Rate}\times\text{Time}}{100}$
$\therefore\left[(6300+x)\times\frac{16}{100}\times 3\right]-\left(6300\times\frac{14}{100}\times 3\right)=618$
$\Rightarrow\frac{4(6300+x)}{25}-882=206\Rightarrow\frac{4(6300+x)}{25}=1088$
$\Rightarrow 6300+x=1088\times\frac{25}{4}=272\times 25$
$\Rightarrow$ 6300 + x = Rs. 6800

51. (1) Number of research journals published by publisher D
$=18400\times\frac{16}{100}$
Research papers $\Rightarrow 28600\times\frac{16}{100}$
$\therefore$ Required ratio
$=18400\times\frac{16}{100}:28600\times\frac{16}{100}=92:143$

52.(2) Required answer
$=18400\times\frac{22}{100}+28600\times\frac{13}{100}$
= 4048 + 3718 = 7766

53.(3) Required percentage
$=\frac{18-8}{8}\times 100=\frac{1000}{8}=125\%$

54. (4) Research papers published by A, C and F
= (15 + 20 + 18) % of 28600
$=\frac{28600\times 53}{100}=15158$
Research journals published by A, C and F
= (12 + 22 + 14) % of 18400
$=18400\times\frac{48}{100}=8832$
Required difference = 15158 – 8832 = 6326

55.(1) $\because$ 100% = 360^0
$\therefore 1\%=\frac{360}{100}=3.6$
$\therefore 15\%=3.6\times 15=54^0$

56. (3) The pattern of the number series is:
495 - 1 × 10 = 485
485 - 2 × 10 = 465
465 - 4 × 10 = 425
425 - 8 × 10 = 345
345 - 16 × 10 = $\boxed{185}$

57. (2) The pattern of the number series is:
16 + 6 = 22
22 + 11 = 33
33 + 16 = 49
49 + 21 = 70
70 + 26 = $\boxed{96}$

58. (5) The pattern of the number series is:
32 + 2^2 = 36
36 + 4^2 = 52
52 + 6^2 = 88
88 + 8^2 = 152
152 + 10^2 = $\boxed{252}$

59. (3) The pattern of the number series is:
17 + 272 = 289
289 + 136 = 425
425 + 68 = 493
493 + 34 = 527
527 + 17 = $\boxed{544}$

60. (4) The pattern of the number series is:
13 + 1 × 14 = 27
27 + 2 × 14 = 55
55 + 3 × 14 = 97
97 + 4 × 14 = 153
153 + 5 × 14 = $\boxed{223}$

61. (4) $\frac{515\times 22}{100}-43=\frac{?}{5.5}$
$\Rightarrow 113-43=\frac{?}{5.5}$
$\therefore ?=70\times 5.5=385$
$\therefore$ Required answer = 375

62. (2) $?=\frac{1600\times 200}{50}-1400+3900=6400-1400+3900=8900$
$\therefore$ Required answer = 9000

63. (1) ? = 4434 - 2212 – 1134 + 3377 = 4465
$\therefore$ Required answer = 4466

64. (1) There are 10 balls in the bag.
Total possible outcomes
= Selection of 2 balls out of 10 balls
$={}^{10}C_2=\frac{10\times 9}{1\times 2}=45$
Total favourable outcomes
= Selection of 2 balls out of 6 red balls + selection of 2 balls out of 4 yellow balls
$={}^{6}C_2+{}^{4}C_2=\frac{6\times 5}{1\times 2}+\frac{4\times 3}{1\times 2}=15+6=21$
$\therefore$ Required probability $=\frac{21}{45}=\frac{7}{15}$

65. (2) Match I : Match II = 5 : 4
Match II : Match III = 2 : 1 = 4 : 2
Match I : Match II : Match III = 5 : 4 : 2
According to the question,
$5x - 2x = 48$
$\Rightarrow 3x = 48$
$\Rightarrow x = \frac{48}{3} = 16$
Total runs scored in three matches
$= 5x + 4x + 2x$
$= 11x = 11 \times 16 = 176$
$\therefore$ Required average = $\frac{176}{3} = 58\frac{2}{3}$

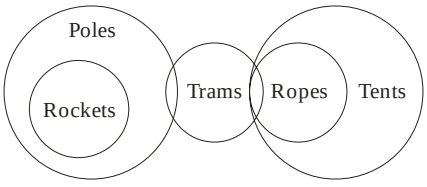
66-67.

© ⇒ ≤	$ ⇒ ≥	@ ⇒ =
★ ⇒ <	% ⇒ >	

66. (5) D @ M $\Rightarrow$ D = M
M $ B $\Rightarrow$ M ≥ B
B ★ R $\Rightarrow$ B < R
R % T $\Rightarrow$ R < T
Therefore, D = M ≥ B < R > T
Conclusions :
I. B ★ D $\Rightarrow$ B < D :Not True
II. B @ D $\Rightarrow$ B = D : Not True
B is either smaller than or equal to D. Therefore, either I or II is true.
III. T ★ M $\Rightarrow$ T <M: Not True

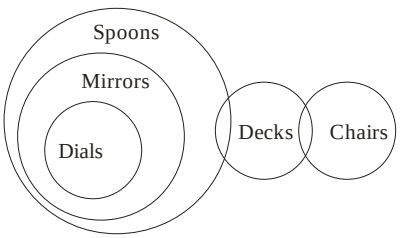
67. (4) W © F $\Rightarrow$ W ≤ F
F @ D $\Rightarrow$ F=D
D ★ K $\Rightarrow$ D < K
K $ J $\Rightarrow$ K ≥ J
Therefore, W ≤ F $\Rightarrow$ D < K ≥ J
Conclusions :
I. K % W $\Rightarrow$ K > W :True
II. D $ W $\Rightarrow$ D ≥ W: True
III. F ★ K $\Rightarrow$ F < K : True

68. (4)



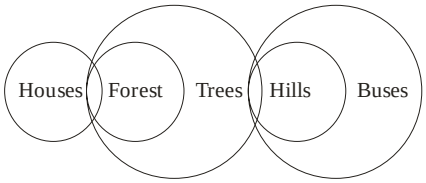
I. ✓ II. × III. × IV. ✓
Only I and IV follows.

69. (3)



I. × II. ✓ III. × IV. ×
Only (II) follows.

70. (1)



I. ✓ II. ✓ III. × IV. ×
Only I and II follows.

71-75. A – Maths – 5
B – English/Hindi – 7
C – Marathi – 5
D – Economics – 6
E – Civics – 6
G – English/Hindi – 7
I – History – 7.

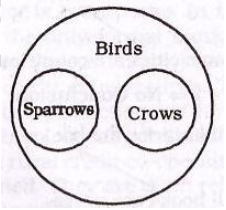
71. (3) 72. (1) 73. (1)
74. (3) 75. (2)

76 – 80.

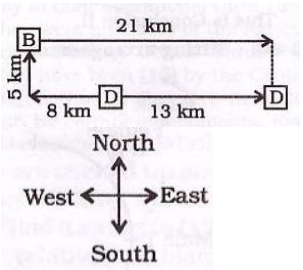
Friend	Bank	Post
A	S	Forex Officer
B	M	Agriculture Officer
C	N	Economist
D	L	Terminal Operator
E	R	IT Officer
F	Q	Clerk
G	P	Research Analyst

76. (2) B works as an Agriculture Officer.
77.(3) C is an Economist
78.(1) B works for bank M.
79. (4) A works for bank S and he is a Forex Officer.
80.(5) None is true.

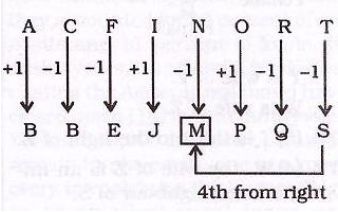
81. (2) Sparrows and Crows are birds. But sparrow is different from crow.



82. (4)

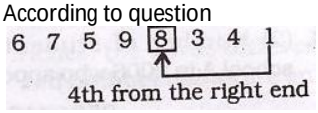


83. (1)

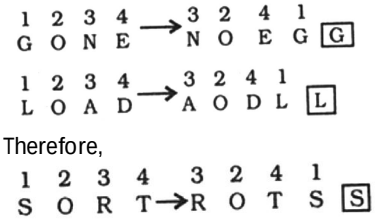


84. (3) The soldiers who constitute the force fighting on land are called Army.
Similarly, Navy is related to water.

85. (2) According to question

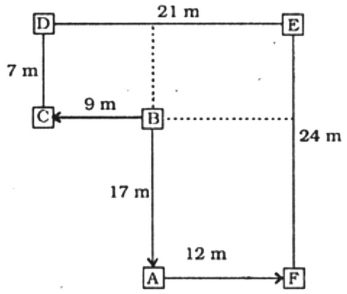


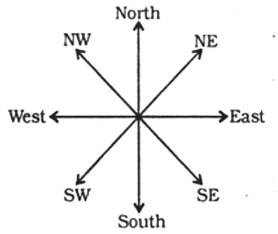
86. (3) 87. (4) 88. (3)
89. (1) 90. (2)
91. (5) Clearly, both the expectations are implicit in the statement.
92. (2) Only expectation II is implicit in the statement.
93. (2)



94. (4)

95. (3) Meaningful Worlds ⇒ REDO, RODE
96 – 97.





96.(4) It is clear from the diagram he would reach Point B first.
97.(2) Point E is in North-East direction with respect to Point A.
98.(1) P & Q ⇒ P is son of Q.
Q % R ⇒ Q is father of R.
R + S ⇒ R is husband of S.
S $ T ⇒ S is mother of T.
R is father of T.
So, Q is grandfather of T.
99. (3) P % Q ⇒ P is father of Q.
Q + R ⇒ Q is husband of R.
R $ S ⇒ R is mother of S.
S $ T ⇒ S is mother of T.
T & V ⇒ T is son of V.
S is mother of T.
V is son-in-law of R.
P is Grandfather of S.
R is Grandmother of T.

100.(4) P + Q ⇒ P is husband of Q.
Q $ R ⇒ Q is mother of R.
R % S ⇒ R is father of S.
S @ T ⇒ is daughter of T.
S & T ⇒ S is son of T.
If we establish that S is child of T, then R would be the husband of T.