SBI PO PHASE - I MOCK TEST - 193 (SOLUTION)
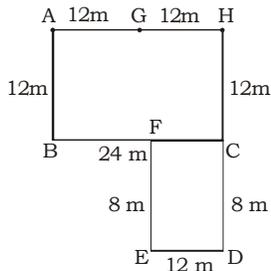
REASONING

(1–5) :
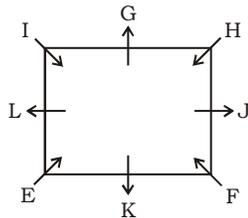
1.	(2)	2.	(3)	3.	(4)
4.	(1)	5.	(3)		

(6–11) :

6.	(4)	7.	(3)

(8–12) :

$$C > E > A > D > G > B > F$$
$$50 26$$

8.	(3)	9.	(2)	10.	(2)
11.	(3)	12.	(3)		

(13–17) :
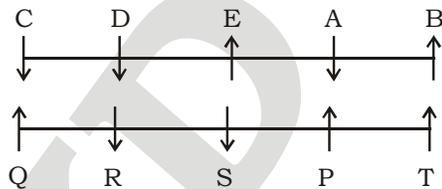
13.	(4)	14.	(2)	15.	(3)
16.	(5)	17.	(2)		

(18–22) :

Floor	Person
8	R
7	Q
6	Vacant Floor
5	V
4	U
3	P
2	T
1	S

18.	(1)	19.	(3)	20.	(3)
21.	(1)	22.	(5)		

(23–27) :

23. (4)
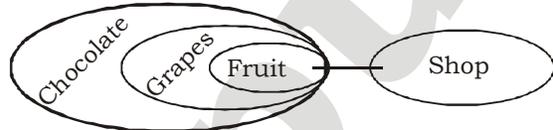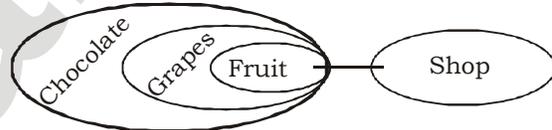

I. True   II. False
Only Conclusion I follows.

24. (1)
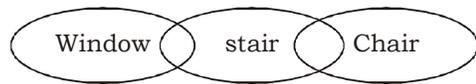

I. Doubt   II. True
Only Conclusion II follows.

25. (5)

I. True   II. True
Both conclusion I and II follow.

26. (3)

I. Doubt   II. Doubt
Either conclusion I or II follows.

27. (2)

I. False   II. False
Neither conclusion I nor II follows.

(28-32) :

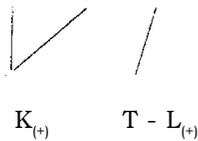| Day	Morning (10 a.m)	Evening (3 p. m)
Monday	A	S
Tuesday	T	B
Wednesday	C	P
Thursday	E	D
Friday	Q	R

28.	(5)	29.	(2)	30.	(4)

31. (1) 32. (4)
33. (3)

(a) $M_{(+)} \Leftrightarrow N_{(-)} \quad -Z_{(-)}$

$K_{(+)} \qquad T - L_{(+)}$

Hence, K and L are cousins.

$M_{(+)} \Leftrightarrow N_{(-)} \quad -Z_{(+)}$

(b)

$K_{(+)} \qquad T - L_{(+)}$
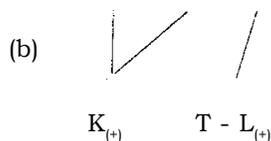
Again, K and L are cousins.

$M_{(+)}$

(c)

$X_{(+)} \Leftrightarrow T_{(-)}$

$K_{(+)} \qquad G - L_{(-)}$
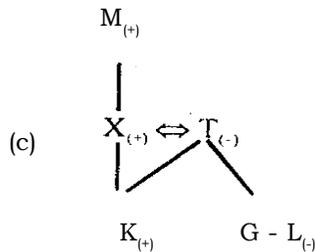
Here, K and L are sisters.

34. (1)

35. (4) According to the statement of Vicky, the woman is either his mother or aunt.

MATHS

36. (2) $\sqrt{3100} \times \sqrt{567} \div \sqrt{250} = ? \div 8$

$\Rightarrow 56 \times 24 \div 16 \approx ? \div 8$

$\Rightarrow \dfrac{56 \times 24}{16} = \dfrac{?}{8}$

$\Rightarrow 84 = \dfrac{?}{8}$

$\Rightarrow ? = 8 \times 84 = 672 \approx 670$

37. (4) $? \approx \dfrac{700 \times 90}{100} + \dfrac{1000 \times 50}{100} - 170$

$= 630 + 500 - 170 = 960$

38. (4) $? \approx \dfrac{340}{20} \div \dfrac{30}{510} \times \dfrac{180}{60}$

$= \dfrac{340}{20} \times \dfrac{510}{30} \times \dfrac{180}{60} = 867 \approx 870$

39. (1) $7000 \div 70 \times 95 \approx ? \times 20$

$? = \dfrac{7000 \times 95}{70 \times 20} = 475$

40. (1) $? \approx (50)^2 - (9)^2 - (16)^2$

$= 2500 - 81 - 256 = 2163 \approx 2165$

41. (2) Required total marks

$= 75 \times \dfrac{52}{100} + 75 \times \dfrac{80}{100} + 75 \times \dfrac{88}{100} + 200 \times$

$\dfrac{59}{100} + 120 \times \dfrac{65}{100} + 150 \times \dfrac{68}{100}$

$= 39 + 45 + 66 + 118 + 78 + 102 = 448$

42. (3) Required average

$= \dfrac{75}{100 \times 6} \times (52 + 80 + 56 + 60 + 64 + 76)$

$= \dfrac{75}{100 \times 6} \times 388 = 48.5$

43. (5) Total marks obtained by Akanksha in all the subject

$= 75 \times \dfrac{60}{100} + 75 \times \dfrac{72}{100} + 75 \times \dfrac{56}{100} + 200 \times$

$\dfrac{71}{100} + 120 \times \dfrac{55}{100} + 150 \times \dfrac{56}{100}$

$= 45 + 54 + 42 + 142 + 66 + 84 = 433$

$\therefore$ Required % $= \left(\dfrac{433}{695} \times 100 \right)\%$

$= 62.30\% \approx 62\%$

44. (4) Required % $= \left[\dfrac{75 \times \dfrac{64}{100}}{150 \times \dfrac{68}{100}} \times 100 \right]\%$

$= \left(\dfrac{48}{102} \times 100 \right)\% = 47.05\% \approx 47\%$

45. (1) Total marks obtained by Alka in Physics, Chemistry and Biology together

$= \dfrac{75}{100} \times (64 + 76 + 60)$

$= \dfrac{75}{100} \times 200 = 150$

Total marks obtained by Ena in Physics, Chemistry and Biology together

$= \dfrac{75}{100} \times (76 + 64 + 48)$

$= \dfrac{75}{100} \times 188 = 141$

$\therefore$ Required difference $= 150 - 141 = 9$

46. (4) The pattern of the given series is :

$5 \times 1.5 + 1.5 = 7.5 + 1.5 = 9$

$9 \times 2.5 + 2.5 = 22.5 + 2.5 = 25$

$25 \times 3.5 + 3.5 = 87.5 + 3.5 = 91$

$91 \times 4.5 + 4.5 = 409.5 + 4.5 = 414$

Similarly,

(a) $\Rightarrow 3 \times 1.5 + 1.5 = 4.5 + 1.5 = 6$

(b) $\Rightarrow 6 \times 2.5 + 2.5 = 15 + 2.5 = 17.5$

(c) $\Rightarrow 17.5 \times 3.5 + 3.5 = 61.25 + 3.5$
$= 64.75$

47. (2) The pattern of the given series is :

$15 \times 1 - 1 \times 6 = 15 - 6 = 9$

$9 \times 2 - 2 \times 5 = 18 - 10 = 8$

$8 \times 3 - 3 \times 4 = 24 - 12 = 12$

$12 \times 4 - 4 \times 3 = 48 - 12 = 36$

$36 \times 5 - 5 \times 2 = 180 - 10 = 170$

Similarly,

(a) $\Rightarrow 19 \times 1 - 1 \times 6 = 19 - 6 = 13$

(b) $\Rightarrow 13 \times 2 - 2 \times 5 = 26 - 10 = 16$

48. (1) The pattern of the given series is :

$7 \times 1 - 1 = 6$

$6 \times 2 - 2 = 10$

$10 \times 3 - 3 = 27$

$27 \times 4 - 4 = 104$

$104 \times 5 - 5 = 515$

Similarly,

(a) $\Rightarrow 9 \times 1 - 1 = 8$

(b) $\Rightarrow 8 \times 2 - 2 = 14$

(c) $\Rightarrow 14 \times 3 - 3 = 39$

(d) $\Rightarrow 39 \times 4 - 4 = $ **152**

49. (5) The pattern of the given series is :

$6 \times 2 + 2^2 = 12 + 4 = 16$

$16 \times 3 + 3^2 = 48 + 9 = 57$

$57 \times 4 + 4^2 = 228 + 16 = 244$

Similarly,

(a) $\Rightarrow 4 \times 2 + 2^2 = 8 + 4 = 12$

(b) $\Rightarrow 12 \times 3 + 3^2 = 36 + 9 = 45$

(c) $\Rightarrow 45 \times 4 + 4^2 = 180 + 16 = 196$

(d) $\Rightarrow 196 \times 5 + 5^2 = 980 + 25 = $ **1005**

50. (3) The pattern of the given series is :

$8 \times 1 + 1 = 9$

$9 \times 2 + 2 = 20$

$20 \times 3 + 3 = 63$

$63 \times 4 + 4 = 256$

Similarly,

(a) $\Rightarrow 5 \times 1 + 1 = 6$

(b) $\Rightarrow 6 \times 2 + 2 = 14$

(c) $\Rightarrow 14 \times 3 + 3 = 45$

(d) $\Rightarrow 45 \times 4 + 4 = 184$

(e) $\Rightarrow 184 \times 5 + 5 = $ **925**

51. (1) Good quality content in 150 kgs of wheat
= 90% of 150 = 135 kg.

In new mixture, low quality wheat is 5%, so good quality wheat 95%

∴ 5% of the new mixture = 15 kg,

∴ New mixture $= \dfrac{15 \times 100}{5} = 300$ kg

∴ Good quality of wheat added
= (300 – 150)kg. = 150 kg.

52. (4) Rate $= \dfrac{SI \times 100}{Principal \times Time}$

$= \dfrac{12000 \times 100}{40000 \times 3} = 10\%$

∴ CI = Principal $\left[\left(1 + \dfrac{Rate}{100}\right)^{Time} - 1\right]$

$= 40000\left[\left(1 + \dfrac{10}{100}\right)^3 - 1\right]$

$= 40000\ [(1.1)^3 - 1]$

$= 40000\ (1.331 - 1)$

$= 40000 \times 0.331 = ₹\ 13240$

53. (3) Total marked Price of article
= 25 × 45 = ₹ 1125

Selling Price (Giving 10% discount)

$= \dfrac{90}{100}$ of 1125 = ₹ 1012.5

CP $= \dfrac{1012.50}{150} \times 100 = ₹\ 675$

Now the selling price is ₹ 1125, then profit
= 1125 – 675 = ₹450

% profit $= \left(\dfrac{450}{675} \times 100\right)\% = 66\dfrac{2}{3}\%$

54. (3) The number of tiles will be minimum if size of each marble is maximum.

Size of each tile = HCF of 3.78 and 5.25 metre = 0.21 metre

∴ Number of tiles $= \dfrac{3.78 \times 5.25}{0.21 \times 0.21} = 450$

55. (5) Ratio of the profit = Ratio of the equivalent capitals of Suraj and Manish
= 60000 × 12 : 100000 × 6
= 720000 : 600000 = 6 : 5

∴ Manish's share in the profit

$= ₹\ \left(\dfrac{5}{11} \times 151800\right) = ₹\ 69000$

56. (5)   57. (3)

58. (1) Required total import

$$= \frac{185}{(25+12)} \times (10 + 10$$

$$= \frac{185}{37} \times 20 = ₹ \, 100 \text{ crore}$$

59. (2) Required %

$$= \left(\frac{2.1-2}{2} \times 100\right)\% = \left(\frac{0.1}{2} \times 100\right)\% = 5\%$$

60. (2) New ratio $= \dfrac{28 \times \frac{75}{100}}{10 \times \frac{150}{100}} = \dfrac{2100}{1500} = \dfrac{7}{5} = 1.4$

61. (5) 40% houses have two or more people.

∴   60% of all houses have only one person of these 60% and 25% have only a male.

25% of 60% = 0.25 × 0.60

= 0.15 = 15%

Rest of the houses have exactly one female and no males = (60 – 15)% = 45%

62. (1) Let Javed has x pencils.

∴ $2.5 \times x - 1.75 \times x = 110 + 55$

$\Rightarrow 0.75 \times x = 165$

$\Rightarrow x = \dfrac{165}{0.75} = ₹220$

63. (1) Ena = $3x$ years

Akanksha's = $2x$ years

After 8 years,

$$\frac{3x+8}{2x+8} = \frac{11}{8}$$

$\Rightarrow 24x + 64 = 22x + 88$

$\Rightarrow 2x = 88 - 64 = 24 \Rightarrow x = 12$

∴ Ajay's age = $2x = 2 \times 12 = 24$ years

∴ Age of Ena's son = $\dfrac{1}{2} \times 24 = 12$ years

64. (1) Speed of bus $= \dfrac{480}{8} = 60$ km/hr

∴ Speed of Train $= \dfrac{60}{3} \times 4 = 80$ km/hr

and speed of car $= \dfrac{80}{16} \times 15 = 75$ km/hr

∴ A car covered distance in 6 hours

= 75 × 6 = 450 km

65. (5) ∵ 10 men complete the work in 8 days.

∴   80 men will complete the work in 1 day.

∵   20 women complete the work in 6 days.

∴   120 women complete the work I in 1 day.

∴   80 men = 120 women

∴   2 men = 3 women

∴   16 men + 18 women = 16 men

+ 18 × $\dfrac{2}{3}$ men = 28 men

∵   10 men can do the work in 8 days

∴   28 men can do the work in

$\dfrac{10 \times 8}{28} = \dfrac{20}{7} = 2\dfrac{6}{7}$ days.

66. (5) I. $\sqrt{x+18} = \sqrt{144} - \sqrt{49}$

$\Rightarrow \sqrt{x+18} = (12 - 7) = 5$

$\Rightarrow x + 18 = 25$

$\Rightarrow x = 25 - 18 = 7$

II. $y^2 = 473 - 409 = 64$

$\Rightarrow y = \pm 8$

Relationship can't be established.

67. (4) I. $x^2 - 7x + 12 = 0$

$\Rightarrow x^2 - 4x - 3x + 12 = 0$

$\Rightarrow x(x - 4) - 3(x - 4) = 0$

$\Rightarrow (x - 3) - (x - 4) = 0$

$\Rightarrow x = 3$ or 4

II. $y^2 - 9y + 20 = 0$

$\Rightarrow y^2 - 5y - 4y + 20 = 0$

$\Rightarrow y(y - 5) - 4(y - 5) = 0$

$\Rightarrow (y - 4)(y - 5) = 0$

∴ y = 4 or 5

Clearly, $x \leq y$

68. (3) Dividing equation I by II,

$$\frac{(y-x)(y+x)}{(y-x)} = \frac{32}{2}$$

$\Rightarrow y + x = 16$ ....(i)

and $y - x = 2$ ....(ii)

Adding both equations,

$2y = 18 \Rightarrow y = 9$

From equation (i),

$x = 16 - 9 = 7$

Clearly, $x < y$

69. (5) I. $\sqrt{x} - \dfrac{\sqrt{5}}{\sqrt{x}} = 0$

$\Rightarrow \sqrt{x} \times \sqrt{x} - \sqrt{5} = 0 \Rightarrow x = \sqrt{5}$

II. $y^3 = 5^{3/2}$

$\Rightarrow y^3 = \left(\sqrt{5}\right)^3 \Rightarrow y = \sqrt{5}$

Clearly, $x = y$

70. (1) By equation I × 3 + equation II × 5,

$9x + 15y = 84$

$\underline{40x - 15y = 210}$

$49x = 294$

$\Rightarrow x = \dfrac{294}{49} = 6$

From equation I,

$3 \times 6 + 5y = 28$

$\Rightarrow 5y = 28 - 18 = 10$

$\Rightarrow y = \dfrac{10}{5} = 2$

Clearly, $x > y$

ENGLISH LANGUAGE

71. (4) Refer the third sentence of the first paragraph.

72. (2) Refer the fourth sentence of the first paragraph.

74. (4) Refer fourth sentence of the second paragraph.

76. (5) Refer the first sentence of the passage.

77. (3) Refer the second sentence of the passage.

78. (2) Refer the second sentence of the second paragraph.

86. (4) Replace 'have' with 'had' because the sentence is in past tense.

87. (3) Replace 'would have' with 'had' (past conditional).

88. (2) Replace 'were' with *was'. When two nouns are joined by "with", the noun coming before 'with' is the subject of the sentence and verb follows it.

89. (2) Remove 'it' because the subject of the verb 'was used' is 'stone' and so 'it' is superfluous.

90. (3) Remove 'the'.

VOCABULARIES

Words	Meaning in English	Meaning in Hindi
Implications	the conclusion drawn from something but not explicitly stated	संकेत
Morbidities	a number of disease	बिमारी, रोग
Crumbling	process of deterioration	कमजोर होता हुआ
Dubious	not to be relied upon; suspect	संदेहपूर्ण
Profligacy	dissipation	अंधाधुंध खर्च करने की प्रवृत्ति
Inkling	a slight knowledge or suspicion	आभास
Ledger	a book or other collection of financial accounts of a particular type	खाता बही
Wailing	give a cry of pain, grief, or anger	चिकना, बिलकना
Refute	disprove	खंडन करना
Arbitrator	an independent person or body officially appointed to settle a dispute	मध्यस्थता करने वाला

SBI PO PHASE - I MOCK TEST - 193 (ANSWER KEY)

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