

SBI PO Preliminary Grand Test –SPP-180542

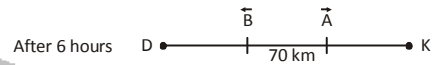
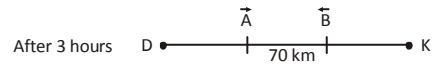
HINTS & SOLUTIONS

- 1. (1)
- 2. (4)
- 3. (1)
- 4. (3)
- 5. (3)
- 6.(2)
- 7. (4)
- 8. (1)
- 9. (4)
- 10.(3)
- 11.(5)
- 12.(2)
- 13.(4)
- 14.(5)
- 15.(4)
- 16.(1)
- 17.(1)
- 18.(1)
- 19.(4)
- 20.(5)
- 21.(2)
- 22.(5)
- 23.(3)
- 24.(4)
- 25.(2)
- 26.(1)
- 27.(5)
- 28.(1)
- 29.(2)
- 30.(4)

11.(5) No error
 12.(2) Use 'are' in place of 'a' because subject is in plural form
 13.(4) "to everyone concerned"
 14.(5) No error
 15.(4) "acceptable to" should replace "acceptable by", "Acceptable" is always followed by 'to'
 16.(1) Use 'To curb' in place of 'To curbing' because when "to" is used as INFINITIVE PARTICLE then first form of Verb is used.
 17.(1) Use 'have' in place of 'has' because 'diesel cars' is plural
 18.(1) "best" should replace "well"
 19.(4) "attractive" should replace "attracted"
 20.(5) No error

36. (1) Total student = x
 Total marks = 50x
 Changed marks = 50x – [100 × (90 – 60)]
 Therefore new average = $\frac{50x - 3000}{x} = 45$
 $\Rightarrow 5x = 3000 \Rightarrow x = 600.$

37. (1)



Since distance covered in 3 hours = 70 km
 Therefore total distance = 70 × 3 = 210 km.

38. (1) Let x and y be speed of man and current respectively.

$$\frac{12}{x+y} = \frac{4}{x-y} \text{ or } x = 2y$$

$$\text{Also, } \frac{45}{x+y} + \frac{45}{x-y} = 20$$

$$\text{Or, } \frac{15}{y} + \frac{45}{y} = 20 \quad (\because x = 2y)$$

$$\text{Or, } y = 3 \text{ km/hr.}$$

39. (2) B per day work = $\frac{1}{12} - \frac{1}{20} = \frac{1}{30}$

$$\text{B half day work} = \frac{1}{2} \times \frac{1}{30} = \frac{1}{60}$$

(A 1 day + B half day) work

$$= \frac{1}{20} + \frac{1}{60} = \frac{1}{15}$$

Work will be completed in 15 days.

40. (5) Out curved surface area = $2 \times \pi \times (3 + 1) \times 10 = 80 \pi \text{ cm}^2$

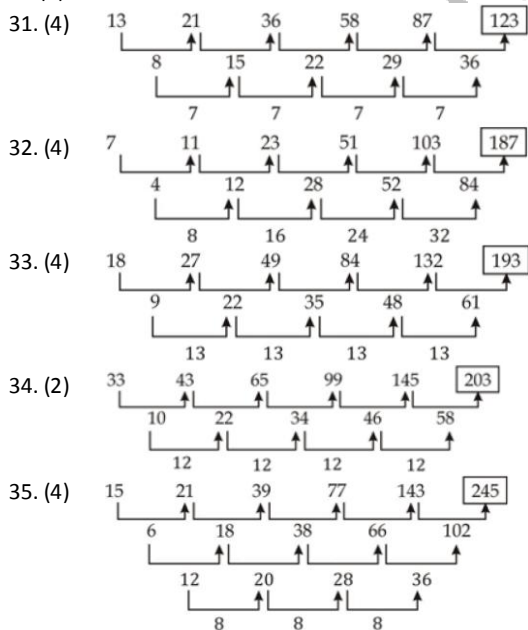
- 41. (2)
- 42. (1)
- 43. (2)
- 44. (3)
- 45. (4)
- 46. (2)

Case I

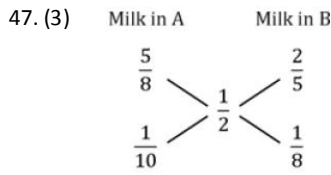
S : 8 kmph
 A : 13 kmph
 After 4 hrs,
 Archana has lead of
 $13 \times 4 - 8 \times 4 = 20 \text{ km}$

Case II

S : 16 kmph
 A : 12 kmph
 Hence, After 4 hrs,
 Time taken by Shruti to bridge the lead of
 Archana = $\frac{20}{16-12} = 5 \text{ hrs}$
 Entire Journey last for 4 + 5 = 9 hrs.

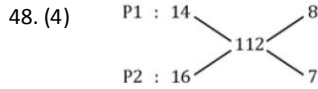


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= 4 : 5

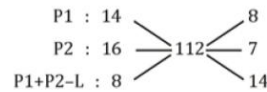
They must be taken in 4 : 5



Time for (P1 + P2) to fill = $\frac{112}{15}$ hrs

Due to leak, new time to fill = $\frac{112}{15} + \frac{32}{60} = 8$ hrs.

Now,



L = 1 unit

∴ Time taken by Leak to empty a cistern = $\frac{112}{1} = 112$ hrs

49. (4) Amount to be paid initially = $20000 \left[1 + \frac{10}{100}\right]^3 = 26620$

After sudden change in last year's rate

New amount to be paid = $20000 \left[1 + \frac{10}{100}\right]^2 \left[1 + \frac{15}{100}\right] = 27830$

Extra amount = $27830 - 26620 = \text{Rs. } 1210$

50. (2) Cost of plastering = $\left(2 \times \frac{22}{7} \times \frac{7}{2} \times 22.5\right) \times 3 = \text{Rs. } 1485$

51. (4) I. $225x^2 - 4 = 0$

$\Rightarrow (15x)^2 - (2)^2 = 0$

$\Rightarrow (15x + 2)(15x - 2) = 0$

$\Rightarrow x = -\frac{2}{15}, \frac{2}{15}$

II. $\sqrt{225}y + 2 = 0$

$\Rightarrow y = -\frac{2}{15}$

∴ $x \geq y$

52. (5) I. $\frac{3}{\sqrt{x}} + \frac{4}{\sqrt{x}} = \sqrt{x}$

$\Rightarrow \frac{3+4}{\sqrt{x}} = \sqrt{x}$

$\Rightarrow x = 7$

II. $y^3 - \frac{(7)^2}{\sqrt{y}} = \sqrt{y}$

$\Rightarrow y^{\frac{7}{2}} = 7^2$ or $y = 7$

∴ $x = y$

53. (5) I. $9x - 15.45 = 54.55 + 4x$

$\Rightarrow 5x = 70 \Rightarrow x = 14$

II. $\sqrt{y+155} - \sqrt{36} = \sqrt{49}$

$\Rightarrow \sqrt{y+155} - 6 = 7$

$\Rightarrow \sqrt{y+155} = 13$

$\Rightarrow y = 169 - 155 = 14$

∴ $x = y$

54. (1) I. $x^2 + 9x + 18 = 0$

$\Rightarrow x^2 + 6x + 3x + 18 = 0$

$\Rightarrow x(x+6) + 3(x+6) = 0$

$\Rightarrow (x+3)(x+6) = 0$

$\Rightarrow x = -3, -6$

II. $y^2 - 13y + 40 = 0$

$\Rightarrow y^2 - 8y - 5y + 40 = 0$

$\Rightarrow y^2(y-8) - 5(y-8) = 0$

$\Rightarrow (y-5)(y-8) = 0$

$\Rightarrow y = 5, 8$

∴ $x < y$

55. (4) I. $\sqrt{x+6} = \sqrt{121} - \sqrt{36}$

$\Rightarrow \sqrt{x+6} = 11 - 6 = 5$

$\Rightarrow x+6 = 25 \Rightarrow x = 19$

II. $y^2 = 361 \Rightarrow y = \pm 19$

∴ $x \geq y$

56. (4)

57. (5) Average population of B

$= \frac{20+30+35+45+45+50}{6} = \frac{225}{6} = 37.5$

58. (2) % rise = $\frac{40-30}{30} \times 100 = \frac{1000}{30} = 33\frac{1}{3}\%$

59. (1) Total population of A = $15 + 25 + 30 + 30 + 40 + 45 = 185$

Total population of B = 225

Ratio = $185 : 225 = 37 : 45$

60. (3) Req. % = $\frac{30}{185} \times 100 = 16\frac{8}{17}\%$

61. (4)

62. (2)

63. (4)

64. (5)

65. (5)

66. (2)

67. (4)

68. (5)

69. (4)

70. (2)

71 - 75.

Person	Colour	Floor
Chanda Kochhar	Sky Blue	II
Arundhati Bhattacharya	Yellow	IV
Shikha Sharma	Blue	III
Nita Ambani	Purple	I
Naina Lal Kidwai	Red	V
Usha Ananthasubramanian	Green	VII
Vijayalakshmi Iyer	Pink	VI

71. (3)

72. (1)

73. (2)

74. (2)

75. (3)

76. (3)

77. (5)

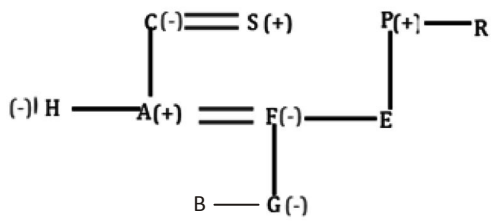
78. (1)

79. (5)

80. (5)

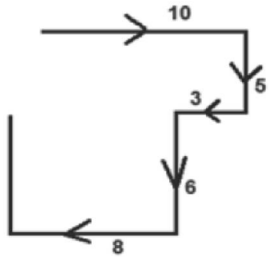
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81 – 83.

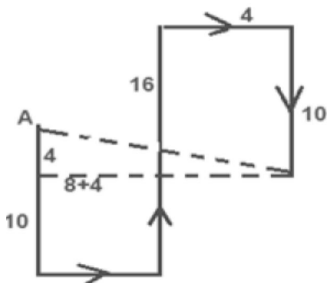


- 81. (4)
- 82. (3)
- 83. (5)

84. (4)



85. (3)



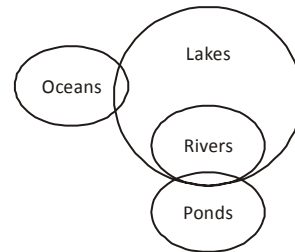
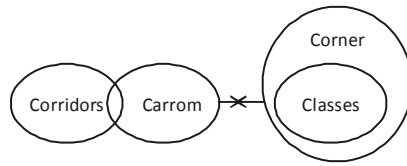
- 86. (4) Number of rooms is not found from both the statements.
- 87. (4) Both the statements do not tell about colour of curtains on the stage.
- 88. (3) From either of the statements we can find the answer of question.
- 89. (2) In 2nd statement, it is mentioned that men become slaves of habits so we can say that habit's make men's life rigid.
- 90. (4) Both the statement do not describe about child ability to learn.

91 – 95.

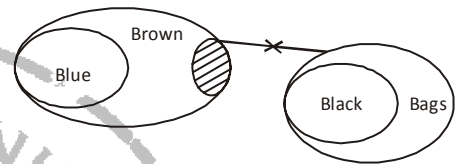
Days	Friends	Entry Fees
Monday	D	600
Tuesday	E	400
Wednesday	G	1200
Thursday	C	1800
Friday	F	2700
Saturday	B	1500
Sunday	A	900

- 91. (5)
- 92. (3)
- 93. (5)
- 94. (1)
- 95. (4)
- 96. (4)

- 97. (2)
- 98. (5)



99. (1)



100. (5)

