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2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009				
$=\sqrt{-\sqrt{3}+\sqrt{2+\sqrt{8}\sqrt{(2+\sqrt{3})^2}}}$	39. (C) Let the numbers be <i>a</i> and <i>b</i> . Then, $a + b = 55$ and $ab = 5 \times 120 = 600$ .			
$= \sqrt{-\sqrt{3} + \sqrt{2 + \sqrt{8\left(2 + \sqrt{3}\right)}}}$	The required sum = $\frac{1}{a} + \frac{1}{b} = \frac{a+b}{ab}$			
$= \sqrt{-\sqrt{3} + \sqrt{2 + \sqrt{16 + 8\sqrt{3}}}}$	$=\frac{55}{600}=\frac{11}{120}$			
$= \sqrt{-\sqrt{3} + \sqrt{2 + \sqrt{12 + 4} + 2 \times 2 \times 2\sqrt{3}}}$	40. (B) S.P = $\frac{60}{85} \times 100 \times \frac{102}{100} = ₹ 72$			
$= \sqrt{-\sqrt{3} + \sqrt{2 + (2 + 2\sqrt{3})}}$	41. (D) Let listed Price = 100			
$= \sqrt{-\sqrt{3} + \sqrt{4 + 2\sqrt{3}}}$	Total discounted price after successive discounts of 25% , 30% & 40%			
$= \sqrt{-\sqrt{3} + \sqrt{3 + 1 + 2 \times \sqrt{3}}}$	$= 100 \times \frac{100 - 25}{100} \times \frac{100 - 30}{100} \times \frac{100 - 40}{100}$			
$= \sqrt{-\sqrt{3} + \sqrt{3} + 1} = 1$ 33. (C) Total distance travelled = 50 × 2.5 + 70 × 1.5	$= 100 \times \frac{75}{100} \times \frac{70}{100} \times \frac{60}{100}$			
= $(125 + 105)$ km = 230 km 34. (D) Required increase	$=\frac{3150}{100} = 31.50$			
$= \left(30 + 30 + \frac{30 \times 30}{100}\right)\%$	Single equivalent discount 100 – 31.50 = 68.50%			
35. (B) Part of the tank filled by both pipes in 1	42. (D) The pattern is :			
minute.	$5 \times 2 - 2 = 10 - 2 = 8$ 8 × 2 - 2 = 16 - 2 = 14			
$-\frac{1}{1}$ $+\frac{1}{1}$ $-\frac{3+2}{1}$ $-\frac{1}{1}$	$14 \times 2 - 2 = 28 - 2 = 26$			
$=\frac{1}{20}+\frac{1}{30}=\frac{1}{60}=\frac{1}{12}$	$26 \times 2 - 2 = 52 - 2 = 50$			
Hence, the tank will be filled in 12 minutes	$50 \times 2 - 2 = 100 - 2 = 98$			
36. (B)				
1 1 1	It is a right angle triangle.			
37. (D) Ratio of sides = $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$	m 12 6			
$= \frac{1}{2} \times 12 : \frac{1}{3} \times 12 : \frac{1}{4} \times 12$	44. (A) $\frac{m}{n} = \frac{12}{10} = \frac{6}{5}$			
= $6:4:3$ $\therefore$ The smallest side	$\Rightarrow \frac{m^2}{n^2} = \left(\frac{6}{5}\right)^2 = \frac{36}{25}$			
$=\frac{3}{(6+4+3)} \times 52$	$m^2 + n^2 = rac{m^2}{n^2} + 1$			
$=\frac{3}{13}$ × 52 = 12 cm	$\therefore \frac{1}{m^2 - n^2} = \frac{\frac{1}{m^2}}{\frac{1}{n^2} - 1}$			
38. (C) From the given alternatives, 26 + 1 = 27; 35 + 1 = 36	(On dividing numerator and denominator by $n^2$ )			
$\therefore \frac{27}{36} = \frac{3}{4}$	36			
Again, $26 - 5 = 21$ ; $35 - 5 = 30$	$\frac{1}{25}$ + 1 36 + 25 61 6			
$\therefore \frac{21}{30} = \frac{7}{10}$	$= \frac{36}{25} - 1 = \frac{36 - 25}{36 - 25} = \frac{31}{11} = 5\frac{3}{11}$			



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## **RRB MOCK TEST-5 (ANSWER KEY)**

1. (C)	26. (C)	51. (A)	76. (C)
2. (B)	27. (A)	52. (B)	77. (B)
3. (A)	28. (A)	53. (A)	78. (A)
4. (B)	29. (B)	54. (A)	79. (C)
5. (D)	30. (A)	55. (C)	80. (C)
6. (D)	31. (A)	56. (A)	81. (D)
7. (D)	32. (D)	57. (C)	82. (B)
8. (A)	33. (C)	58. (A)	83. (D)
9. (A)	34. (D)	59. (B)	84. (C)
10. (C)	35. (B)	60. (A)	85. (C)
11. (D)	36. (B)	61. (D)	86. (D)
12 (A)	37 (D)	62 (A)	87 (C)
13(C)	38 (C)	63 (B)	88 (C)
14 (R)	39 (C)	64 (D)	80. (C) 80. (R)
17.(D)	40 (P)	65 (D)	(D) (D)
16 (C)	ط، (ط) (ط)		эо. (D) 01 (A)
10.(C)	41. (D)	67. (A)	91. (A)
17. (A)	42. (D)	67. (C)	92. (A)
18. (B)	43. (A)	68. (A)	93. (A)
19. (C)	44. (A)	69. (A)	94. (B)
20. (D)	45. (B)	70. (B)	95. (B)
21. (B)	46. (B)	71. (C)	96. (D)
22. (B)	47. (B)	72. (B)	97. (A)
23. (B)	48. (D)	73. (C)	98. (A)
24. (B)	49. (A)	74. (B)	99. (B)
25. (A)	50. (C)	75. (C)	100. (B)
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