


RRB PO PRE MEMORY BASED QUANT- SOLUTIONS

41. (d): $x=17/2, 19/4; y=19/4, 13/3; x \geq y$
 42. (b): $x = 7; y = 2; x > y$
 43. (a): $x = 2, \frac{11}{9}; y = 3, 4; x < y$
 44. (c): $x = 4, \frac{-8}{3}; y = \frac{9}{2}, 4;$
 45. (b): $x = 7, \frac{-2}{3}; y = \frac{-3}{2}, -1; x > y$



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46. (a); Required No. = $\frac{37.5+30+25+37.5+35}{5}$
 $= \frac{165}{5}$ lakhs
 $= 3300000$
 47. (e); Required no. $(30 + 37.5 + 42.5 + 25)$
 $= 135$ lakhs
 $= 13500000$
 48. (b); Required Ratio = $(37.5 + 30) : (42.5 + 27.5)$
 $= 27 : 28$
 49. (d); Required % = $\frac{40}{25+37.5} \times 100$
 $= 64\%$
 50. (c); Required no. = $(27.5 \times \frac{150}{100}) + 35$
 $= 76.25$ lakhs
 $= 7625000$
 51. (b); Ratio = $15.9 : 4.5$
 $= 53 : 15$
 52. (e); Required average = $\frac{54}{5} = 10.8$ hundred
 53. (a); Difference Bank A - 27
 B - 12.4
 C - 25.1
 D - 28.6
 E - 15.9
 F - 10.5
 \therefore Required bank = Bank A
 54. (e); Required % = $\frac{8.6}{22.3} \times 100 \approx 39\%$
 55. (d); Required male officers = $\frac{100-26}{100} \times 3.5$
 $= \frac{74}{100} \times 3.5$
 $= 2.59$ hundred
 $= 259$
 56. (d); C.P of wrist watch = Rs. 450
 List price be 'x'
 Acc. to question

$$450 \times \frac{120}{100} = \frac{90x}{100}$$

$$x = \frac{450 \times 120}{90} = \text{Rs. } 600$$

57. (c); C.P 100
 S.P 112 } 5
 ↓ -10%
 90 }
 ↓ +30%
 5 → 5.75 }
 100 → $\frac{5.75}{5} \times 100$
 100 → 115
 C.P of article = Rs. 115
 To gain 20% S.P must be = $115 \times \frac{120}{100} = \text{Rs. } 138$

58. (d); $SI = \frac{8}{25} P,$
 $\frac{SI}{P} = \frac{8}{25}$

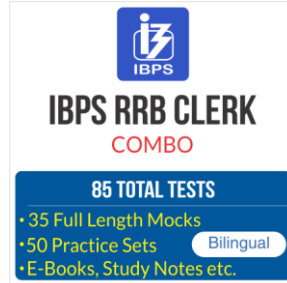
Time = $\frac{R}{27}$, Rate = R, $8 = \frac{25 \times \frac{R}{27} \times R}{100}$
 $R^2 = 64, R = 8\%$

59. (b);

Acid	Water	Total
Glass I 2	$3 \times 9 \times 7$	$5 \times 9 \times 7$
Glass II 3	$4 \times 5 \times 9$	$7 \times 5 \times 9$
Glass III 4	$5 \times 5 \times 7$	$9 \times 5 \times 7$

Glass I	126	189
Glass II	135	180
Glass III	140	175
	<u>401</u>	<u>544</u>

Required ratio 401 : 544



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60. (c);
 Sol. Total correct weight of 36 students
 $= 50 \times 36 - 73 + 37 = 1800 - 36$
 $= 1764$ kg
 Correct average = $\frac{1764}{36} = 49$ kg
 61. (b); let length of each train
 $= x$ meters
 Speed of first train = $\frac{x}{4}$ m/sec.

Speed of second train = $\frac{x}{5}$ m/sec.

Relative speed = $\frac{x}{4} + \frac{x}{5} = \frac{9x}{20}$ meter

Required time = $2x \times \frac{20}{9x}$
 $= \frac{40}{9}$ sec.

62. (b);

Sol. average speed = $\frac{d}{\frac{d}{3} \times \frac{1}{25} + \frac{d}{4} \times \frac{1}{30} + \frac{d}{50} \times \frac{5}{12}}$
 $= \frac{1}{\frac{8+5+5}{600}}$
 $= \frac{100}{3} = 33\frac{1}{3}$ km/hr

63. (a); $(8M + 4W)6 = T$(i)

$M = 2W$ (ii)

From (i) and (ii)

$(16W + 4W) \times 6 = T$

$120W = T$

$T = 60M$

$(8M + 4W) \times 2 + (4M + 8W) \times t = T$

$(8M + 2M) \times 2 + (4M + 4M) \times t = 60M$

$20 + 8t = 60$

$t = 5$ days

64. (c); Let the upstream speed is U and downstream speed is D

$\frac{25}{U} + \frac{39}{D} = 8$ (i)

$\frac{35}{U} + \frac{52}{D} = 11$ (ii)

$U = 5, D = 13$

Speed of stream = $\frac{D-U}{2} = \frac{13-5}{2} = 4$ km/h.

65. (c);

$$\begin{array}{ccc} \frac{5}{7} & & \frac{7}{10} \\ & \diagdown & / \\ & \frac{2}{5} & \\ & / & \diagdown \\ \frac{7}{10} - \frac{2}{5} & : & \frac{2}{5} - \frac{2}{7} \\ = \frac{7-4}{10} & : & = \frac{14-10}{35} \\ = \frac{3}{10} & : & = \frac{4}{35} \end{array}$$

Required Ratio = $\frac{\frac{3}{10}}{\frac{4}{35}} = \frac{3}{10} \times \frac{35}{4} = \frac{21}{8}$

66. (e) Required value = 2% of 6500 = 130

67. (c) Required percentage = $\frac{11}{13} \times 100 = 85$

68. (d) Required number of students = $(20 + 26 + 17)\%$ of 6500 = 63% of 6500 = 4095

69. (d) Required ratio = 24 : 17

70. (a) Required percentage = $\frac{26}{20} \times 100 = 130$

71. (c); $98 \div 14 \times 49 - 294 = (?)^2$
 $\Rightarrow 7 \times 49 - 294 = (?)^2$
 $\Rightarrow 343 - 294 = (?)^2$
 $\Rightarrow (?)^2 = 49$
 $\Rightarrow ? = 7$ or -7

72. (a); $(2 \times 3)^3 \div (4 \times 9)^2 \times (27 + 8)^2 = (6)^?$
 $\Rightarrow 6^3 \div (36)^2 \times (216)^2 = (6)^?$
 $\Rightarrow 6^3 \div (6^2)^2 \times (6^3)^2 = (6)^?$
 $\Rightarrow 6^{3-4+6} = (6)^?$
 $\Rightarrow ? = 5$

73. (b); 103.72

74. (e); $\sqrt{576} \div (4)^2 \times 7.4 + (7)^3 - 231 = ?$
 $\Rightarrow 24 \div 16 \times 7.4 + 343 - 231 = ?$
 $\Rightarrow 1.5 \times 7.4 + 343 - 231 = ?$
 $\Rightarrow 11.1 + 343 - 231 = ?$
 $\Rightarrow ? = 123.1$

75. (a); $(\sqrt{3} - 2)^2 = ? - \sqrt{12} - \sqrt{36}$
 $\Rightarrow 3 + 4 - 4\sqrt{3} = ? - 2\sqrt{3} - 6$
 $\Rightarrow ? = 7 - 4\sqrt{3} + 2\sqrt{3} + 6$
 $= 13 - 2\sqrt{3}$

76. (a); $\times 0.5, \times 1, \times 1.5, \times 2$

77. (b); $\times 2+1, \times 2+3, \times 3+4, \times 4+5, \times 5+6$

78. (d); $+5, +7, +11, +13, +17$

79. (c); 0 2 6 12 20
 2 4 6 8

80. (e); $+7, +12, +17, +22, +27$