

IBPS Clerk Pre Memory Based (Quantitative Aptitude) Solution

S36. Ans.(d);

Sol.

$$\begin{array}{cccccc}
 9 & 11 & 16 & 26 & ? & 69 \\
 2 & 5 & 10 & 17 & 26 & \\
 3 & 5 & 7 & 9 & & \\
 \hline
 & & & & ? = 43 &
 \end{array}$$

S37. Ans.(d);

Sol. $(\times 1 + 1), (\times 2 + 2), (\times 3 + 3) \dots$

$$136 \times 5 + 5 = 685$$

S38. Ans.(b);

Sol.

$$\begin{array}{cccccc}
 21 & 24 & 32 & 45 & 63 & ? \\
 3 & 8 & 13 & 18 & 23 & \\
 5 & 5 & 5 & 5 & & \\
 \hline
 & & & & ? = 86 &
 \end{array}$$

S39. Ans.(a);

Sol. $(\times 0.5), (\times 1), (\times 2), (\times 4), (\times 8)$

$$24 \times 8 = 192$$

S40. Ans.(e);

Sol.

$$\begin{array}{cccccc}
 7 & 10 & 16 & 28 & ? & 100 \\
 3 & 6 & 12 & 24 & 48 & \\
 \hline
 & & & & ? = 52 &
 \end{array}$$

S41. Ans.(b)

$$\text{Sol. } 0.05(X) = \frac{125}{100}(Y)$$

$$X - Y = 96$$

$$Y = 4, X = 100$$

S42. Ans.(d)

Sol. $A = B - 4$

$$\frac{(B - 4) - 3}{B - 5} = \frac{4}{5}$$

$$B = 15, A = 11$$

S43. Ans.(b)

$$\text{Sol. Per hour fill by A \& B} = \frac{1}{16} + \frac{1}{12} = \frac{7}{48}$$

$$\text{Tank filled in 2 hours} = \frac{14}{48} \times 240 = 70 \ell$$

$$\text{Water needed to fill the tank} = 240 - 70 = 170 \ell$$

S44. Ans.(c)

Sol. Let speed of person = x kmph

Speed of current = y kmph

$$x + y = 8$$

$$x - y = 2$$

$$x = 5 \text{ kmph}, y = 3 \text{ kmph}$$

S45. Ans.(d)

Sol. 75% of P – 60% of P = 1500

$$P = \text{Rs. } 10000$$

S46. Ans.(d);

$$\text{Sol. } \frac{x - \frac{25x}{100}}{y + \frac{250y}{100}} = \frac{6}{5}$$

$$75x = 420y$$

$$\frac{75x}{350y} = \frac{6}{5}$$

$$\frac{x}{y} = \frac{420}{75}$$

$$\frac{x}{y} = \frac{28}{5}$$

S47. Ans.(c);

$$\text{Sol. Percentage gain} = \frac{200}{800} \times 100$$

$$= 25\%$$

S48. Ans.(b);

$$\text{Sol. Let B's 1 day work} = \frac{1}{x}$$

$$\therefore \text{A's 1 day work} = \frac{1}{x} \times \frac{5}{2}$$

$$\text{Now, } \frac{2x}{5} = x - 50$$

$$\frac{3x}{5} = 50$$

$$x = \frac{250}{3}$$

$$\therefore \text{Required days} = \frac{1}{\frac{3}{250} + \frac{3}{100}}$$

$$= \frac{500}{6 + \frac{15}{17}}$$

$$= 23 \frac{17}{21}$$

S49. Ans.(d);

$$\text{Sol. } 20(12) + 20(16) + 20x = 900$$

$$20x = 900 - 240 - 320$$

$$20x = 340$$

$$x = 17 \text{ years}$$

S50. Ans.(e);

$$\text{Sol. Monthly salary} = \frac{1750 \times 100}{14} = 12500$$

$$\text{Total monthly salary invested by him} = \frac{(14+8+7)}{100} \times 12500$$

$$= 3625$$

$$\text{Annual investment} = 12 \times 3625 = 43500$$

S51. Ans.(b)

$$\begin{aligned} \text{Sol. Required difference} &= (65 + 82 + 72) - (72 + 59 + 74) \\ &= 219 - 205 = 14 \end{aligned}$$

S52. Ans.(b)

$$\text{Sol. Required percentage} = \frac{(84-72)}{72} \times 100 = 16\frac{2}{3}\%$$

S53. Ans.(d)

$$\text{Sol. Required average} = \frac{320}{5} = 64$$

S54. Ans.(c)

$$\text{Sol. Required ratio} = \frac{(70+75)}{(51+64)} = 29 : 23$$

S55. Ans.(a)

$$\text{Sol. Required difference} = 357 - 314 = 43$$

S56. Ans.(d)

$$\text{Sol. } 61.2 + ? \times 5.92 = 150$$

$$\text{or, } ? = \frac{88.8}{5.92} = 15$$

S57. Ans.(b)

$$\text{Sol. } ?^2 = 732.2921 - 146.6521$$

$$\text{or } ? = 24.2$$

S58. Ans.(a)

$$\text{Sol. } ? = \frac{288 \times 57}{2052} = 8$$

S59. Ans.(d)

$$\text{Sol. } 528 \div 66 = 8$$

S60. Ans.(e)

$$\text{Sol. } ? = 280 \times 26 = 7280$$

S61. Ans.(a)

$$\text{Sol. } ? = 5612 - 1394 = 4218$$

S62. Ans.(e)

$$\text{Sol. } ? = 4207 - 3007 = 1200$$

S64. Ans.(c)

$$\text{Sol. ?} = 55.8 + 7.2 - 38.2 = 24.8$$

S65. Ans.(b)

$$\text{Sol. ?} = 589.57$$

S66. Ans.(c)

$$\text{Sol. ?} = \frac{33 \times 1331}{121} = 363$$

S67. Ans.(c)

$$\text{Sol. ?} = \frac{0.5}{100} \times 674 \times \frac{0.8}{100} \times 225 = 6.066$$

S68. Ans.(b)

$$\begin{aligned}\text{Sol. ?} &= \frac{(854)^3 - (276)^3}{(854)^2 + (854 \times 276) + (276)^2} \\ &= 854 - 276 \\ &= 578\end{aligned}$$

S69. Ans.(e)

$$\text{Sol. ?} = 126 + 30 + 109 = 265$$

S70. Ans.(d)

$$\text{Sol. ?} = 226.2 \times 6 = 1357.2$$