

RRB Clerk PRE MEMORY BASED QUANT Solution

S41. Ans.(a)

Sol. The pattern is $+1^2, +2^2, +3^2, \dots, 42+25=57$

S42. Ans.(b)

Sol. The pattern is $\times 2, \times 4, \times 6, \times 8 \dots \dots 384 \times 10 = 3840$

S43. Ans.(c)

Sol. The pattern is $-7, -14, -21, -28 \dots \dots 87 - 35 = 52$

S44. Ans.(d)

Sol. The pattern is $+3, +14, +26, +41$

$$+11, +12, +13, 39+14=53, 83+53=136$$

S45. Ans.(a)

Sol. The pattern is $\times 1.5, \times 2, \times 2.5, \times 3 \dots \dots 12 \times 2.5 = 30$

S46. Ans.(b)

Sol. $762 + 254 = 1016$

S47. Ans.(d)

Sol. $9260 - 8963 = ? \times 33$

$$? = \frac{297}{33} = 9$$

S48. Ans.(e)

Sol. $142.35 = ? + 23.12$

$$? = 119.23$$

S49. Ans.(b)

Sol. $6666 \times \frac{1}{66} \times \frac{1}{0.25} = ?$

$$? = 404$$

S50. Ans.(b)

Sol. $\sqrt{?} = 52 - 18$

$$? = 1156$$

S51. Ans.(c)

Sol. $(2 + 4 + 5 - 3) + \left(\frac{1}{7} + \frac{3}{5} + \frac{1}{10} - \frac{1}{7}\right)$

$$= 8 + \frac{10+42+7-10}{70}$$

$$= 8 + \frac{49}{70}$$

$$= 8\frac{49}{70} = 8\frac{7}{10}$$

S52. Ans.(e)

Sol. $7052 - 6070 = ?$

$$? = 982$$

S53. Ans.(b)

Sol. $107.3 - 87.3 = \frac{?}{100} \times 320$

$$? = \frac{20 \times 100}{320} = 6.25$$

S54. Ans.(b)

Sol. $\frac{((3)^3)^3 \times 3^4}{((3)^4)^2} = 3^?$

$$? = 9 + 4 - 8$$
$$= 5$$

S55. Ans.(4); $141 + 920 = \sqrt{?} + 894$

$$\sqrt{?} = 167$$

$$? = 27889$$

S56. Ans.(c)

Sol. $? = 7682 - 4909 = 2773$

S57. Ans.(b)

Sol. $\sqrt{?} = \sqrt{2601} - 14 = 51 - 14 = 37$

$$? = 1369$$

S58. Ans.(c)

Sol. $\frac{85}{100} \times 420 + \frac{x}{100} \times 1080 = 735$

$$\Rightarrow x = 35$$

S59. Ans.(d)

Sol. 980

S60. Ans.(b)

Sol. $? = 367.5 - 355.2$

$$= 12.3$$

S61. Ans.(c)

Sol. Average number of tourists which go by train

$$= \frac{188 + 166 + 194 + 185 + 159 + 163}{6}$$

$$= 175.83$$

S62. Ans.(b)

Sol. Total tourist of Mumbai=893

Total tourist of Masuri=795

Difference=98

S63. Ans.(a)

$$= \frac{185}{148} \times 100 = 125\%$$

Sol. Required percentage

S64. Ans.(c)

Sol. Average of tourists who go by air=168.16

Average of tourists who go by bus= 161.33

Required difference= 6.83

S65. Ans.(c)

Sol. Required ratio = 192:182= 96:91

S66. Ans.(a)

Sol. Perimeter = $\frac{1.1 \times 1000}{560} m$

$$2 \times \frac{22}{7} \times r = \frac{1.1 \times 1000}{56}$$

$$r = \frac{110 \times 7}{56 \times 22 \times 2} = \frac{5}{16} m$$

$$= 31.25 \text{ cm}$$

S67. Ans.(a)

Sol. Let Elena's age = x

$$x + 15 = 5(x - 5)$$

$$x = 10 \text{ years}$$

S68. Ans.(b)

Sol. Man's interest for 2 years = $\frac{3000 \times 2 \times 10}{100} = 600$

∴ After two years, the man will pay = 3000 + 600 = 3600 Rs.

So then is 0% gain

S69. Ans.(a)

Sol. Let downstream speed = x

Upstream speed = y

$$\frac{15}{x} = 3 \frac{45}{60} \Rightarrow \frac{15}{x} = \frac{15}{4} \Rightarrow x = 4$$

$$\frac{5}{y} = 2 \frac{30}{60} \Rightarrow \frac{5}{y} = \frac{5}{2} \Rightarrow y = 2$$

∴ Speed of current = 1 kmph

S70. Ans.(b)

Sol. total Surface Area of wet surface

$$= 2(l + B) \times h + lb$$

$$= 2(6 + 4) 1.25 + 6 \times 4$$

$$= 20 \times 1.25 + 24$$

$$= 25 + 24$$

$$= 49 \text{ m square}$$

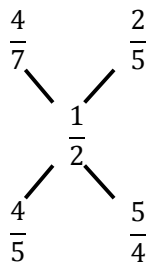
S71. Ans.(d)

Sol. Clearly from the options

Ans- option (d)

S72. Ans.(b)

Sol.



$$\left(\frac{1}{2} - \frac{2}{5}\right) = \frac{1}{10} \left(\frac{4}{7} - \frac{1}{2}\right) = \frac{1}{14}$$

$$\therefore \text{Required Ratio} = \frac{14}{10}$$

$$= 7 : 5$$

S73. Ans.(c)

Sol. Sum of price of the remaining two

$$\text{Books} = 12 \times 10 - 11.75 \times 8$$

$$= 26$$

∴ Let cost of First book be x

$$\therefore x + \frac{160x}{100} = 26$$

$$\frac{260x}{100} = 26$$

$$x = 10$$

$$\therefore \text{Price of second book} = 10 + 6 = 16$$

S74. Ans.(b)

Sol. Let No. of soldiers = x

$$60 \times x = 15x + 40(x + 500)$$

$$60x = 15x + 40x + 20000$$

$$5x = 20000$$

$$x = 4000$$

S75. Ans.(a)

Sol. Let S.P. = 100

\therefore After commission, price = 90

$$\therefore \text{CP} = \frac{100}{120} \times 90$$

$$= 75$$

Now, commission = 15%

$$\therefore \text{gain \%} = \frac{85-75}{75} \times 100$$

$$= \frac{4}{3} \times 10$$

$$= \frac{40}{3} \%$$

S76. Ans.(c)

Sol. Mirrors are multiple of 12

So expect 3 : 2 all the other ratios can be divided by 12

S77. Ans.(e)

$$\text{Sol. } 2x + \frac{3x}{2} + \frac{4x}{4} = 216$$

$$\frac{8x+6x+4x}{4} = 216$$

$$\frac{18x}{4} = 216 \Rightarrow x = 48$$

$$\therefore \text{No of 50 paise coin} = 48 \times 3 = 144$$

S78. Ans.(a)

Sol. A B C

$$6x \quad 3x \quad x$$

Ratio of their speeds = 6 : 3 : 1

$$\text{Ratio of their time} = \frac{1}{6} : \frac{1}{3} : \frac{1}{1}$$

$$= 1 : 2 : 6$$

$$\therefore \text{Time taken by B} = \frac{42}{6} \times 2$$

$$= 14 \text{ min}$$

S79. Ans.(d)

Sol. Total CP = 32

$$\text{Total SP} = 12 + 6 + 2 = 20$$

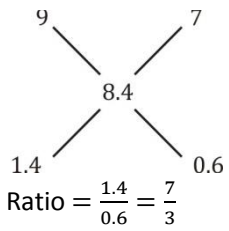
$$\therefore \text{Loss percentage} = \frac{12}{32} \times 100 = 37.5\%$$

S80. Ans.(b)

$$\text{Sol. Mean price} = \frac{10}{110} \times 9.24$$

$$= 10 \times 0.84$$

$$= 8.4$$



\therefore Required quantity = $\frac{27}{3} \times 7 = 63$ kg

