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S66. Ans.(c)

Sol.

$$\text{Required difference} = 25 + 75 - 45 - 50 = 5$$

S67. Ans.(a)

Sol.

$$\text{Total number of pens sold on Saturday} = 30 \times 1.4 = 42$$

$$\text{Total number of pens sold on Friday and Saturday together} = 50 + 42 = 92$$

S68. Ans.(d)

Sol.

$$\text{Total number of pens sold on Sunday} = \frac{75}{125} \times 100 = 60$$

S69. Ans.(b)

Sol.

$$\text{Blue ink pen sold on Thursday} = 45 \times \frac{20}{100} = 9$$

$$\text{Red ink pen sold on Thursday} = (45 - 9) \times \frac{25}{100} = 9$$

$$\text{Black ink pen sold on Thursday} = (45 - 9) \times \frac{75}{100} = 27$$

$$\text{Total number of blue and black ink pen sold on Thursday} = 9 + 27 = 36$$

S70. Ans.(e)

Sol.

$$\text{Total number of non-defective pens sold on Tuesday} = \frac{75}{15} \times 8 = 40$$

S71. Ans.(a)

Sol.

Quantity I. $x^2 + x - 6 = 0$

$$x^2 + 3x - 2x - 6 = 0$$

$$x(x + 3) - 2(x + 3) = 0$$

$$(x + 3)(x - 2) = 0$$

$$x = -3, 2$$


Quantity II. $y^2 + 7y + 12 = 0$


$$y^2 + 4y + 3y + 12 = 0$$

$$(y + 4)(y + 3) = 0$$

$$y = -4, -3$$

Quantity I > Quantity II


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BANK OF BARODA
PO 2018

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S72. Ans.(b)

sol.

A's efficiency = 5

B's efficiency = 4

Let total work = 60

Quantity I: A can do $\frac{5}{6}$ of work in $\rightarrow \frac{50}{5} = 10$ d

Quantity II: B can do $\frac{4}{5}$ of work in $\rightarrow \frac{48}{4} = 12$ d

Quantity II > Quantity I

S73. Ans.(a)

Sol.

Let numbers be $x, x+2, x+4, x+6, x+8, x+10, x+12, x+14$

Quantity I $\rightarrow x + 2 + x + 14 = 2x + 16$

Quantity II $\rightarrow x+4+ x+ 10 = 2x + 14$

Quantity I > Quantity II

S74. Ans.(b)

Sol.

SP = 1500

Let, MP = x

Quantity I = 550

Quantity II

$$x \times \frac{7}{8} = 1500$$

$$x = \frac{1500 \times 8}{7}$$

$$x = \frac{12000}{7}$$

Quantity II > Quantity I



S75. Ans.(e)

Sol.

Quantity I :

Let speed of current = x

speed of boat = $x + 5x$

downstream speed = $7x$

$$\frac{63}{7x} = 3$$

$$x = 3$$

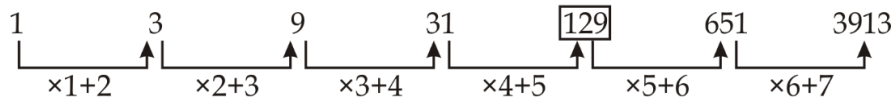
Upstream speed = $6x - x$
= $5x$

= 15 km/hr

Quantity I = Quantity II

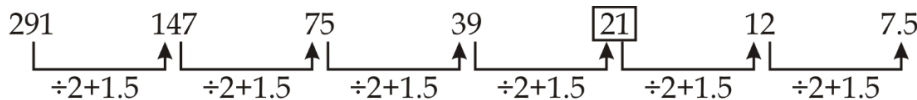
S76. Ans.(c)

Sol.



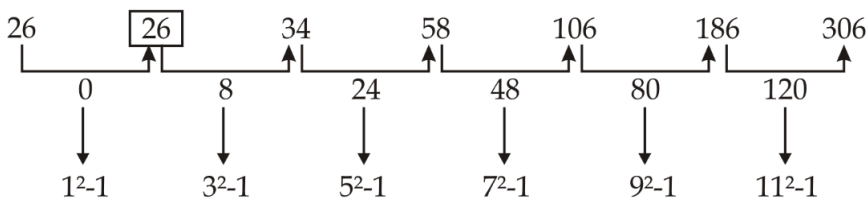
S77. Ans.(a)

Sol.



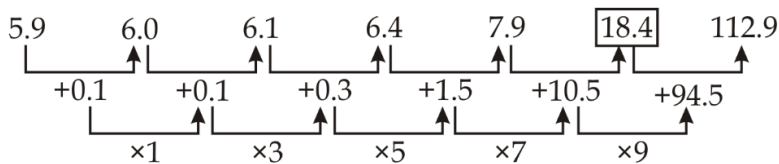
S78. Ans.(e)

Sol.



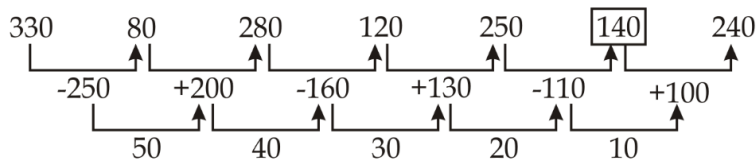
S79. Ans.(d)

Sol.



S80. Ans.(b)

Sol



S81. Ans.(d)

Sol.

Volume of cylinder (s) = $\pi r^2 h$

(r → radius)



Vacancies - 2000

75 TOTAL TEST

- 20 PRE + 10 MAINS MOCKS
- 45 PRACTICE SETS

Bilingual

(h → height)

$$\text{Volume of cone (c)} = \frac{1}{3}\pi R^2 H$$

(R → radius)

(H → height)

$$h = H = 10 \text{ cm}$$

ATQ,

$$\pi r^2 h + \frac{1}{3}\pi R^2 h = 2190\pi$$

$$\pi \times 10 \left[r^2 + \frac{1}{3} \times 15 \times 15 \right] = 2190\pi$$

$$r = 12$$

$$\therefore \frac{r}{R} = \frac{12}{15} = 4 : 5$$

S82. Ans.(c)

Sol.

Atq,

$$\frac{X}{X + 16} = \frac{1}{3}$$

$$3X = X + 16$$

$$X = 8$$

$$\therefore \text{sum of red \& blue balls} = 8 + 6 = 14$$

S83. Ans.(a)

Sol.

Let present age of A be x yrs

& present age of B be y yrs.

ATQ,

$$x + y = 88 + 12$$

$$x + y = 100 \quad \dots(i)$$

$$x - 18 = y - 6$$

$$x - y = 12 \quad \dots(ii)$$

solving (i) & (ii)

$$x = 56$$

$$\therefore \text{age of A 2 year hence} = 58 \text{ yrs}$$

S84. Ans.(b)


Sol.

Let speed of train A be S

$$S \times 18 = 360$$

$$S = 20 \text{ m/s}$$



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$$A : B = 4 : 5$$

$$A : B = 4 : 5$$

$$\text{Speed of B} = 25 \text{ m/s}$$

$$\text{Length of train B} = 25 \times 12 = 300 \text{ m}$$

S85. Ans.(b)

Sol.

Total numbers of ways $\rightarrow 7!$

Favorable numbers of ways $\rightarrow 5! \times 3!$

$$\text{Probability} \rightarrow \frac{5! \times 3!}{7!} = \frac{1}{7}$$

S86. Ans.(d)

Sol.

$$2^? = 32.01 \div 128.01 \times 1023.99 \div 7.99$$

$$2^? \approx \frac{32}{128} \times \frac{1024}{8}$$

$$2^? \approx 32$$

$$2^? \approx 2^5$$

$$? \approx 5$$

S87. Ans.(a)

Sol.

$$\frac{339.99}{?} = \sqrt{143.99} + \sqrt{64.01}$$

$$\frac{340}{?} \approx \sqrt{144} + \sqrt{64}$$

$$\frac{340}{?} \approx 12 + 8$$

$$\frac{340}{20} \approx ?$$

$$17 \approx ?$$



S88. Ans.(e)

Sol.

$$34.02\% \text{ of } 550.09 \div ? = 297.07 \div \sqrt{728.95}$$

$$\frac{34 \times 550}{?} \div ? \approx 297 \div \sqrt{729}$$

$$\frac{187}{?} \approx \frac{297}{27}$$

$$? \approx 17$$

S89. Ans.(a)

Sol.

$$(? \div 9.97) \times 12.08 \approx 20.12\% \text{ of } 1319.97$$

$$(? \div 10) \times 12 \approx \frac{20 \times 1320}{100}$$

$$? \approx \frac{264}{12} \times 10 \approx 220$$

S90. Ans.(d)

Sol.

$$? \% \text{ of } 179.99 = \sqrt{(24.02)^2 + (17.98)^2 + 60.01\% \text{ of } 659.98}$$

$$? \% \text{ of } 180 \approx \sqrt{(24)^2 + (18)^2 + 60\% \text{ of } 660}$$

$$\frac{?}{100} \times 180 \approx \sqrt{576 + 324 + 396}$$

$$\frac{?}{100} \times 180 \approx \sqrt{1296}$$

$$? \approx \frac{36}{180} \times 100$$

$$? \approx 20$$

S91. Ans.(c)

Sol.

Total number of workers in company A and C together

$$= 900 \times \frac{32}{100} + 900 \times \frac{24}{100}$$

$$= 288 + 216$$

$$= 504$$

Total number of officers in company A and C together

$$= 900 \times \frac{32}{100} \times \frac{1}{16} + 900 \times \frac{24}{100} \times \frac{1}{12}$$

$$= 18 + 18 = 36$$

$$\text{Required Ratio} = \frac{504}{36}$$

$$= \frac{14}{1}$$

S92. Ans.(e)

Sol.

Total number of employees in company B

$$= 900 \times \frac{44}{100} \times \frac{19}{18} = 418$$

Total number of employees in company C

$$= 900 \times \frac{24}{100} \times \frac{13}{12} = 234$$

$$\text{Required difference} = 418 - 234 = 184$$

S93. Ans.(a)

Sol.

$$\text{Total number of officers in Company 'A'} = 900 \times \frac{32}{100} \times \frac{1}{16} =$$

$$18$$

$$\text{Total number of officers in Company 'B'} = 900 \times \frac{44}{100} \times \frac{1}{18} =$$

$$22$$

$$\text{Required difference} = 22 - 18 = 4$$






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S94. Ans.(b)

Sol.

Total number of officers in company C

$$= 900 \times \frac{24}{100} \times \frac{1}{12}$$
$$= 18$$

Total number of workers in company C

$$= 900 \times \frac{24}{100} = 216$$

Total number of employees in company D

$$= 216 \times 1.25 + 18 \times 1.5 = 270 + 27 = 297$$

S95. Ans.(d)

Sol.

$$\text{Required difference} = \frac{900}{100} \times (44 + 24 - 32) = 9 \times 36 = 324$$

Solution (96-100)

Ratio of profit share of A, B and C is scheme S₁

$$80000 \times 2 : 30000 \times 3 : 50000 \times 5$$

$$16 : 9 : 25$$

$$\text{Profit share of A from Scheme } S_1 = \frac{16}{50} \times 200,000$$
$$= 64000$$

$$\text{Profit share of B from scheme } S_1 = \frac{9}{50} \times 200,000$$
$$= 36000$$

$$\text{Profit share of C from scheme } S_1 = \frac{25}{50} \times 20,000$$
$$= 100,000$$

Ratio of profit share of A and C in scheme S₂

$$30,000 \times 4 : 10,000 \times 3$$

$$12 : 3$$

$$\text{Profit share of A in scheme } S_2 = \frac{12}{15} \times 90000$$
$$= 72000$$

$$\text{Profit share of C in scheme } S_2 = \frac{3}{15} \times 90,000$$

S96. Ans.(c)

Sol.

$$\text{Required ratio} = (36000 + 10000) : 100,000$$

$$= 46 : 100$$

$$= 23 : 50$$

S97. Ans.(e)

Sol.

$$\begin{aligned}\text{Required \%} &= \frac{64000}{18000} \times 100 \\ &= \frac{3200}{9} \% \\ &= 355\frac{5}{9} \%\end{aligned}$$

S98. Ans.(a)

Sol.

$$\begin{aligned}\text{Total investment of A} &= 80,000 + 30,000 \\ &= 110,000\end{aligned}$$

$$\begin{aligned}\text{Total profit of A} &= 64000 + 72000 \\ &= 136000\end{aligned}$$

Equivalent rate of Interest for 2 year at CI

$$\begin{aligned}&= 20\% + 20\% + \frac{20 \times 20}{100} \\ &= 44\%\end{aligned}$$

$$\begin{aligned}\text{Required CI} &= \frac{44}{100} (136000 + 110000) \\ &= 108240\end{aligned}$$

S99. Ans.(a)

Sol.

$$\begin{aligned}\text{Required average} &= \frac{64000+18000}{2} \\ &= 41000\end{aligned}$$

S100. Ans.(c)

Sol.


$$\frac{80000 \times R \times 3}{100} - 30000 \times \left(\frac{R+5}{100}\right) = 30,000$$

$$2400R - 300R - 1500 = 30000$$

$$8R - R - 5 = 100$$

$$7R = 105$$

$$R = 15\%$$



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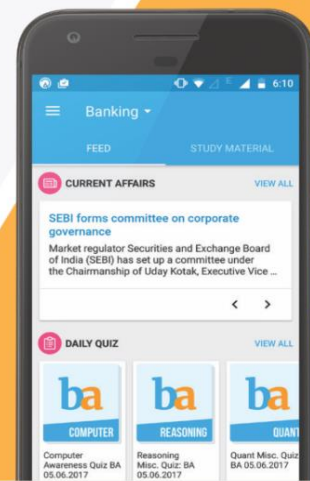
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