

## RBI Assistant Mains Quant Daily Mock (Solutions)

### S1. Ans.(d)

**Sol.** From I,  $R + F + M + S = 90$  years

From II,  $R + M + S = 18\frac{1}{3} \times 3$  years

From III,  $M + S = \frac{4}{7} \times 2F$

From all three statements together, the answer can be obtained.

### S2. Ans.(a)

**Sol.** From I & II,

Let CP =  $x$

$$S.P = \frac{6x}{5}$$

$$\text{Now, New S.P} = \frac{6x}{5} \times \frac{90}{100} = \frac{54x}{50}$$

$$\Rightarrow \frac{54x}{50} - x = 1200 \Rightarrow x = 15000$$

$$\therefore SP. = 18000$$

& from III & I, we can obtain selling price.

& from II & III,

Let S.P. =  $x$

When 10% discount,

$$S.P. = \frac{9x}{10}$$

$$\therefore \frac{9x}{10} - 15000 = 1200 \Rightarrow x = 18000$$

Thus, any two of the three statements are required.

### S3. Ans.(b)

**Sol.**  $12W + 8C \rightarrow 24$  days

$\Rightarrow 3W + 2C \rightarrow 24 \times 4$  days

From A,  $2M = (3W + 2C)$

$\Rightarrow 2M \rightarrow 24 \times 4$  days

$\Rightarrow 1M \rightarrow 24 \times 4 \times 2$  days

From B,

$3W = 6C \Rightarrow W = 2C$

$\Rightarrow 4W = 2M$

$\Rightarrow 1W \rightarrow 24 \times 16$  days

$$\therefore \text{from A + B, } 12M + 12W \rightarrow \left( \frac{1}{24 \times 8} + \frac{1}{24 \times 16} \right) \times 12$$

$$\rightarrow \frac{1}{16} + \frac{1}{32}$$

$$\rightarrow \frac{32}{3} \text{ days}$$

From C,

Not known no. of persons.

BILINGUAL

  

## GENERAL AWARENESS

### CRASH COURSE By Ashish Sir

RBI ASSISTANT MAINS

Starts March 16, 2020

2 PM to 3 PM

**S4. Ans.(e)**

**Sol.** Let length of tunnel and speed of train be  $x$  m and  $v$  m/s respectively.

$$\therefore \text{speed} = \frac{x + \text{length of train}}{24}$$

From A, Length of platform

$$= \frac{7}{5} \times \text{length of train}$$

$$\text{From A+B, length of train} = 18 \times v \times \frac{5}{12}$$

$$\text{From C, } v = 54 \times \frac{5}{18} = 15 \text{ m/sec}$$

All statements are required

**S5. Ans.(e)**

**Sol.** Let M.P of TV = Rs  $100x$

From A, SP of TV = Rs  $85x$

$$\text{From B, CP of table} = 85x \times \frac{100}{120} \times \frac{60}{100}$$

$$\text{From C, } 85x \times \frac{100}{120} \times \frac{60}{100} \times \frac{110}{100} = 560$$

From all three statements together, the answer can be obtained.

**Solutions (6-10)**

Total students appeared in 2016 = 8000

Total students appeared in 2013 = 5800

Total students appeared in exam B in 2011 & 2013 = 6200

$$\text{Total students appeared in exam B in 2011} = \frac{6200}{31} \times 18 = 3600$$

$$\text{Total students appeared in exam B in 2013} = \frac{6200}{31} \times 13 = 2600$$

$$\text{Total students appeared in exam A in 2013} = 5800 - 2600 = 3200$$

$$\text{Total students appeared 2011} = \frac{8000}{125} \times 100 = 6400$$

$$\text{Total students appeared in exam A in 2011} = 6400 - 3600 = 2800$$

$$\text{Total students appeared in 2014} = \frac{8000}{16} \times 13 = 6500$$

$$\text{Students appeared in exam B in 2011} = \text{Students appeared in exam A in 2015} = 3600$$

$$\text{Students appeared in exam B in 2015} = \frac{3600}{4} \times 3 = 2700$$

$$\text{Students appear in exam A in 2016} = \left[1 + \frac{1700}{2700}\right] \times 2700 = 4400$$

$$\text{Students appear in exam B in 2016} = 8000 - 4400 = 3600$$

Let, student appeared in exam A in 2014 =  $x$

student appeared in exam A in 2012 =  $x + 700$

$$\Rightarrow x + x + 700 + 2800 + 3200 + 3600 + 4400 = 21,100$$

$$2x = 6400 \Rightarrow x = 3200$$

$$\text{Students appeared in exam A in 2014} = 3200$$

$$\text{Students appeared in exam A in 2012} = 3200 + 700 = 3900$$

$$\text{Students appeared in exam B in 2014} = 6500 - 3200 = 3300$$

$$\text{Students appeared in exam B in 2012} = 3300 + 1200 = 4500$$

**General Awareness**

Based on GA POWER CAPSULE

**RBI ASSISTANT MAINS**

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	A	B	Total
2011	2800	3600	6400
2012	3900	4500	8400
2013	3200	2600	5800
2014	3200	3300	6500
2015	3600	2700	6300
2016	4400	3600	8000
Total	21,100	20,300	

**S6. Ans.(b)**

**Sol.** According to table its in 2014.

**S7. Ans.(d)**

**Sol.** Required ratio =  $\frac{2800+3200+3900}{2600+3300+3600}$   
 $= \frac{9900}{9500} = \frac{99}{95}$

**S8. Ans.(b)**

**Sol.** Average students appeared in exam A in starting four years

$$= \frac{2800+3900+3200+3200}{4}$$

$$= 3275$$

Average students appeared in exam B in starting four years

$$= \frac{3600+4500+2600+3300}{4}$$

$$= 3500$$

Required difference = 225.

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**S9. Ans.(e)**

**Sol.** Required difference = 4500 - 3200 = 1300

**S10. Ans.(c)**

**Sol.** Required % =  $\frac{8400 - 6400}{6400} \times 100$   
 $= \frac{2000}{6400} \times 100$   
 $= 31.25\%$

**S11. Ans.(c)**

**Sol.** ? =  $\frac{3}{5} \times \frac{4}{7} \times \frac{5}{9} \times \frac{21}{24} \times 504 = 84$

**S12. Ans.(c)**

**Sol.**  $63 \times (27)^? = 296 - 107$   
 $? = \frac{1}{3}$

BILINGUAL



**CURRENT AFFAIRS**  
**CAPSULE BATCH** By Piyush Sir  
**RBI ASSISTANT MAINS**  
Starts March 16, 2020  
10 AM to 12 PM

**S13. Ans.(b)**

$$\text{Sol. } \frac{35}{36} \times ? = \frac{30}{9} - \frac{5}{2}$$

$$? = \frac{6}{7}$$

**S14. Ans.(b)**

$$\text{Sol. } \frac{3}{11} + \frac{39}{44} + \frac{5}{22} = ?$$

$$= \frac{12+39+10}{44}$$

$$? = \frac{61}{44}$$

**S15. Ans.(c)**

$$\text{Sol. } 529 + 2304 - 1521 = ? + 1147$$

$$? = 165$$

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