

Quantitative Aptitude Mega Quiz for SSC CGL – (Solutions)

**S1. Ans.(d)**

**Sol.** Cannot be determined, As the total runs in matches are not given.

**S2. Ans.(a)**

**Sol.** Difference between runs scored by Jadeja and Rahane

$$\text{Match I} = 25 - 20 = 5$$

$$\text{Match II} = 15 - 0 = 15$$

$$\text{Match III} = 70 - 30 = 40$$

$$\text{Match IV} = 40 - 35 = 5$$

Maximum difference = 40 runs.

**S3. Ans.(b)**

**Sol.** Total runs scored by all the batsmen in all 4 matches.

$$1. \text{ Dhoni} = 10 + 50 + 35 + 60 = 155$$

$$2. \text{ Jadeja} = 25 + 15 + 70 + 40 = 150$$

$$3. \text{ Kohli} = 40 + 35 + 55 + 50 = 180$$

$$4. \text{ Rahane} = 20 + 0 + 30 + 35 = 85$$

Least runs are scored by Rahane.

**S4. Ans.(b)**

**Sol.**

Runs scored by Rahane in Match III = 30

$$\text{Required Share} = \frac{30}{225} \times 100\% = 13\frac{1}{3}\%$$

**S5. Ans.(b)**

**Sol.**

No. of respondent below 31 = 66

Total no. of blues lover below 31 = 5

$$\text{Required \%} = \frac{500}{66} \approx 7.6\%$$

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S12. Ans.(d)

Sol.

Let sum = x. Then, S.I. =  $\frac{16}{25}x$

Let rate = R% and time = R years.

$$\therefore \left(\frac{x \times R \times R}{100}\right) = \frac{16x}{25} \Leftrightarrow R^2 = \frac{1600}{25} \Leftrightarrow R = \frac{40}{5} = 8$$

Hence, time = 8 years.

S13. Ans.(b)

Sol.

S.I. at 7% for 10 years

$$= 4000 \times \frac{70}{100} = 2800$$

∴ Required Amount

$$= \text{Rs. } 5240 + \text{Rs. } 2800 = \text{Rs. } 8040$$

S14. Ans.(a)

Sol.

Amount remaining after

$$1 \text{ yr} = 8000 \left(1 + \frac{8.5}{100}\right) - 2100 = \text{Rs. } 6580$$

$$2 \text{ yr} = 6580 \left(1 + \frac{8.5}{100}\right) - 2100 = \text{Rs. } 5039.3$$

S15. Ans.(d);

Sol.

$$\text{Interest on } 4500 = \frac{4500 \times 5 \times 13}{100} = 2925$$

Interest on 2nd amount

$$= 5694 - 2925 = 2769$$

$$2769 = \frac{P \times 5 \times 13}{100}$$

$$P = 4260$$

S16. Ans.(a);

Sol.

$$653.10 = \frac{P \times 3.15 \times 1}{100}$$

$$P = 8866.67$$

S17. Ans.(a)

Sol.

Borrow Money	Interest 20%	Amount	Money after Payback Rs. 1800
4000	800	4800	(4800 - 1800) = 3000
3000	600	3600	(3600 - 1800) = 1800
1800	360	2160	2160

At the end of third year or starting of 4<sup>th</sup> year he should pay Rs. 2160 to clear all his dues.

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**S18. Ans.(d)**

**Sol.** Let the principal be Rs. P and rate of interest be R% per annum.

Difference of C.I. and S.I. for 2 years

$$= \left[ P \times \left( 1 + \frac{R}{100} \right)^2 - P \right] - \left( \frac{P \times R \times 2}{100} \right) = \frac{PR^2}{10^4}$$

Difference of C.I. and S.I. for 3 years

$$= \left[ P \times \left( 1 + \frac{R}{100} \right)^3 - P \right] - \left( \frac{P \times R \times 3}{100} \right) = \frac{PR^2}{10^4} \left( \frac{300+R}{100} \right)$$

$$\therefore \frac{\frac{PR^2}{10^4} \left( \frac{300+R}{100} \right)}{\frac{PR^2}{10^4}} = \frac{25}{8} \Rightarrow \left( \frac{300+R}{100} \right) = \frac{25}{8} \Rightarrow R = \frac{100}{8} = 12\frac{1}{2}\%$$

**S19. Ans.(c)**

**Sol.** Let 1<sup>st</sup> number is X and 2<sup>nd</sup> number is Y

Atq,

$$111\% \text{ of } X = 118.5\% \text{ of } Y$$

$$\frac{X}{Y} = \frac{237}{222}$$

$$= \frac{237+222}{222}$$

$$= (237+222)\text{Unit} = 51867$$

$$1\text{unit} = \text{Rs. } 113$$

$$\text{Required} = 26781 \text{ and } 25086$$

**S20. Ans.(d)**

**Sol.**

$$\text{The sum be} = \frac{412.50 \times 100}{\left( \frac{9}{5} - \frac{7}{2} \right) \times 11}$$

$$= \text{Rs. } 3750$$

**S21. Ans.(b)**

**Sol.**

Let the number of days he was absent be x days.

$$210(48 - x) - 30x = 5640$$

$$10080 - 210x - 30x = 5640$$

$$240x = 4440$$

$$x = 4440/240 = 18\frac{1}{2} \text{ days}$$

**S22. Ans.(b)**

**Sol.** Dev, Manish and Ankit together can finish the work in 4 days.

Dev and Manish together can do it in 24/5 days

Manish and Ankit together can do it in 8 days. Therefore, Dev alone can complete the work in

$$= \frac{XY}{Y-X} \text{ days}$$

$$= \left( \frac{8 \times 4}{8-4} \right) \text{ days}$$

$$[\text{Here, } X = 4 \text{ and } Y = 8]$$

$$= 8 \text{ days.}$$

So, Manish alone can complete the work in

$$= \left( \frac{XY}{Y-X} \right) \text{days} = \left( \frac{\frac{24}{5} \times 8}{8 - \frac{24}{5}} \right) \text{days}$$

$$\left[ \text{Here, } Y = 8 \text{ and } X = \frac{24}{5} \right]$$

= 12 days.

### S23. Ans.(a)

**Sol.** Here, a = 4, b = 6, n = 20, c = 6 and d = 11

If a men or b women complete a work in n days then time taken by c men and d women to complete the same work

$$= \left( \frac{nab}{bc + ad} \right) \text{days}$$

$$= \left( \frac{20 \times 4 \times 6}{6 \times 6 + 4 \times 11} \right) \text{days}$$

= 6 days.

When work is triple than no. of days= 18 days. .

### S24. Ans.(b)

**Sol.**

Obviously.,

$$(5M + 2B) = 4(1M + 1B)$$

$$\therefore M = 2B$$

$\therefore$  Work done by a man and a boy are in the ratio 2: 1.

### S25. Ans.(b)

**Sol.**

Suppose, Anthoni alone can do this work in x days

$\therefore$  Anthoni will do  $\frac{1}{x}$  work in 1 day

Now, work done by (Akbar + Anthoni) in 1 day =  $\frac{1}{16}$

$\therefore$  Work done by Akbar in 1 day =  $\left( \frac{1}{16} - \frac{1}{x} \right)$

And, work done by (Amar + Akbar) in 1 day =  $\frac{1}{12}$

$\therefore$  Work done by Amar in 1 day =  $\frac{1}{12} - \left( \frac{1}{16} - \frac{1}{x} \right)$

$$= \frac{1}{48} + \frac{1}{x}$$

As per the question,

Work done by Amar in 5 days + work done by Akbar in 7 days +  
+ work done by Anthoni in 13 days = whole work

$$\therefore 5 \left( \frac{1}{48} + \frac{1}{x} \right) + 7 \left( \frac{1}{16} - \frac{1}{x} \right) + \frac{13}{x} = 1$$

$$\text{Or, } \frac{5}{48} + \frac{5}{x} + \frac{7}{16} - \frac{7}{x} + \frac{13}{x} = 1$$

$$\text{Or, } \frac{26}{48} + \frac{11}{x} = 1, \text{ or, } \frac{11}{x} = 1 - \frac{26}{48}$$

$$\text{Or, } \frac{11}{x} = \frac{22}{48}, \text{ or, } x = 24$$

$\therefore$  Anthoni alone would complete this work in 24 days.

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