

Quant Advance Level Quiz for SSC CGL 24th November (Solutions)

S1. Ans.(b);

Sol.

Let Money = $21x$

Si = $112x - 21x = 91x$

$$ATX = \frac{21x \times 26 \times R}{100} = 91x$$

$$R = 16\frac{2}{3}\%$$

S2. Ans.(c);

Sol.

Let Sum = $63x$ and SI = $16x$

Rate = $9y$ no of years = 74

$$ATQ \frac{63x \times 9y \times 74}{100} = 16x$$

$$y = \frac{40}{63}$$

$$\text{Rate} = 5\frac{5}{7}$$

S3. Ans.(b);

Sol.

$$\text{Required difference} = \frac{16200x \times 7 \times (R)}{100} = 63$$

$$= 5\frac{5}{9}$$

S4. Ans.(d);

Sol.

ATQ

$$= 12 \times \frac{76}{19} = 48$$

$$= 48 + 1 = 49 \text{ times}$$

S5. Ans.(c);

Sol.

ATQ

Principal

Amount

$$15x6$$

$$23x6 \rightarrow 138$$

$$18x6$$

$$41x5 \rightarrow 205$$

} 67

Principal in both cases is same

$$\text{Rate of into.} = \frac{67 \times 100}{90 \times 22}$$

$$= 3.38\%$$

12 Months Subscription



PREMIUM PLUS

SSC CGL

S6. Ans.(b);

Sol.

Principle = x, S.I. = 0.12x

$$0.12x = \frac{x \times R \times 2}{100}$$

$$R = 6\%$$

$$C.I. = 10 \left[1 + \frac{6}{100} \right]^2 - 10$$

$$= 15 \times \frac{106}{100} \times \frac{106}{100} - 15$$

CI = 1.854 lakhs

CI = 18540

S7. Ans.(c);

Sol.

CI for 3rd year = 125

CI for 4th year = 135

CI of previous year work as principle
for next year hence

135

$$135 = 125 + \frac{125 \times R \times 1}{100}$$

$$R = 8\%$$

S8. Ans.(b);

Sol.

$$1120 = \frac{(4 \times 2 + 6 \times 4 + 8 \times 3) \times P}{100}$$

$$\Rightarrow P = \frac{1120 \times 100}{56} = \text{Rs. 2000}$$

S9. Ans.(b);

Sol.

rate of percent for two different year is 8% and 9%

So, with reference to question let principle is x

Amount = principle + simple interest

$$17568 = x + \frac{x \times (9+8)}{100}$$

$$17568 = \frac{117x}{100}$$

$$X = 15000$$

S10. Ans.(b);

Sol.

CI for 1 year with interest rate annually is

$$CI = \frac{25000 \times 20 \times 1}{100}$$

(WE used si formula here because si and ci is same for 1st year)

$$CI(\text{ANNUALLY}) = 5000$$

CI for 1 year with interest rate half-yearly is

$$CI = 25000 \left[1 + \frac{10}{100} \right]^2 - 25000$$

$$CI(\text{half-yearly}) = 5250$$

therefore difference between annually and half yearly is

$$= 5250 - 5000 = 250$$

S11. Ans.(d);

Sol.

CP of 40 books = MP of 16 books

$$CP \times 40 = MP \times 16$$

$$\frac{CP}{MP} = \frac{2}{5}$$

Let CP = 2n

MP = 5n

$$SP = 2n + \frac{2n \times 100}{100} = 4n$$

$$\text{Required Discount \%} = \frac{5n - 4n}{5n} \times 100 = 20\%$$

S12. Ans.(a);

Sol.

$$\text{CP of first test series} = \frac{34534.5}{77} \times 100 = 44850$$

$$\text{CP of second test series} = \frac{34534.5}{156} \times 100 = 22137.5$$

Total CP = 66987.5

Total SP = 69069

Profit = 2081.5

S13. Ans.(d);

Sol.

$$17 \frac{11}{17} \% = \frac{3}{17}$$

$$\text{Atq, } 28.15 - 15.2 = 12.95$$

$$12.95 = 17x + 20x$$

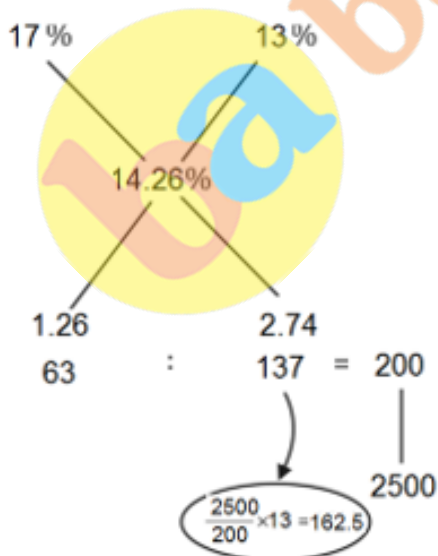
$$CP = \frac{12.95}{37} \times 17 + 15.2 = 21.15$$

$$\text{Sum of digits} = 2 + 1 + 1 + 5$$


$$= 9$$

S14. Ans.(c);

Sol.



ENGLISH



SSC CGL

PRE/TIER-I BOOKS KIT

Ace - Advanced | Arithmetic | English Reasoning | General Awareness

S15. Ans.(b);

Sol.

$$\begin{array}{r} 10 \quad 11 \\ 20 \quad 23 \\ \hline 200 \quad 253 \\ \downarrow \times 11 \quad \downarrow \times 11 \\ \textcircled{2200} \quad 2783 \end{array}$$

S16. Ans.(d);

Sol.

Let total ground nut = 4 kg

$$\text{C.P.} = (45 + 9) \times 4 = \text{Rs. } 216$$

$$\text{S.P.} = \frac{216 \times 123}{100} = \text{Rs. } 265.68$$

$$(265.68 - 70.5) = 195.18 \text{ Rs}$$

S17. Ans.(c);

Sol.

$$\text{Old CP} = 100, \text{ Profit} = 260\%, \text{ SP} = 360$$

$$\text{If CP} \uparrow \text{es by } 36\% = 100 \times \frac{34}{25} = 136$$

$$\text{P}\% = \frac{(360 - 136)}{136} \times 100 = 164.7\%$$

S18. Ans.(c);

Sol.

$$\text{L}\% = \frac{(13)^2 - (12)^2}{(13)^2} \times 100$$

$$= \frac{25}{169} \times 100 \Rightarrow 14.79\%$$

S19. Ans.(c);

Sol.

IF cp of a article is b and sp of b article is a then

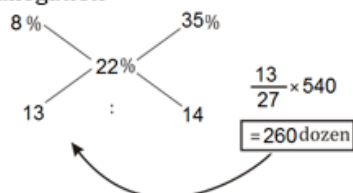
$$\text{P}\% = \frac{(a)^2 - (b)^2}{(b)^2} \times 100$$

$$\begin{aligned} \text{P}\% &= \frac{(19)^2 - (18)^2}{(18)^2} \times 100 \\ &= 11.41\% \text{ profit} \end{aligned}$$


S20. Ans.(b);

Sol.

By allegation



6 Months Subscription



PREMIUM PLUS

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S21. Ans.(b);

Sol. Let the quantity of pure chocolate be x l.

If 12 l of water is added to it,

Then,

$$\text{Atq, } \frac{6(12+x)}{6x} = \frac{23x}{20}$$

$$x = 80$$

S22. Ans.(c);: Required ratio

$$= (5/11+7/12+4/11) : (6/11+5/12+7/11)$$

$$= ((60+77+48)/132) : ((72+55+84)/132)$$

$$= 185 : 211$$

S23. Ans.(b);: Let the barrel contain 4 liters of mixture.

so Wine = 3 litres

Water = 1 litre

Let x litre mixture is taken out.

so Wine in (4 - x) litres mixtures = $\frac{3}{4}(4 - x)$

On adding x litres water, water in mixture

$$= (4 - x) * \frac{1}{4} + x$$

$$= 1 - \frac{x}{4} + x$$

$$= (4 - x + 4x)/4 = (4 + 3x)/4$$

$$\Rightarrow \text{Quantity of wine} = \text{Quantity of water} \rightarrow \frac{3}{4}(4-x) = (4+3x)/4$$

$$\Rightarrow 3 - \frac{3x}{4} = 1 + \frac{3x}{4}$$

$$\Rightarrow 2 = \frac{6x}{4}$$

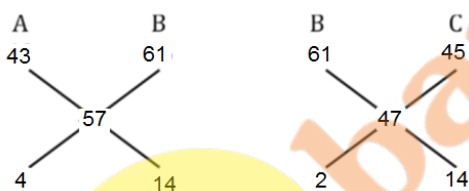
$$x = 2 * \frac{4}{6} = \frac{4}{3}$$

Required answer

$$= \frac{4/3}{4} = \frac{1}{3}$$

S24. Ans (c)

Sol.



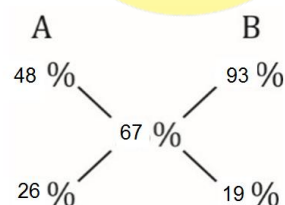
$$A : B = 2 : 7 \quad B : C = 1 : 7$$

$$A : B : C = 2 : 7 : 49$$

$$\text{Weighted average} = \frac{43 \times 2 + 61 \times 7 + 45 \times 49}{58} = 46.86 \%$$

S25. Ans.(c);

Sol.



$$\boxed{A : B} \\ \boxed{26 : 19}$$

TEST SERIES
Bilingual



SSC CGL 2019-20
PRIME
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