

Quant Mega Quiz for SSC CGL Tier - 2 (Solutions)

S1. Ans.(b)

Sol.

Let time travel by A and B = t hour

$$\text{Then required ratio} = \frac{800/t}{700/t} = 8 : 7$$

S2. Ans.(d)

Sol.

$$\text{Average} = \frac{550 + 650 + 900}{3} = 700$$

S3. Ans.(c)

Sol. Distance travel by C all over days

$$= 740 + 250 + 1150 + 700 + 660 = 3500 \text{ km}$$

Distance travel by all vehicle on Wednesday

$$= 700 + 850 + 1150 + 250 + 525 = 3475 \text{ km}$$

$$\text{Difference} = 25 \text{ km}$$

S4. Ans.(d)

Sol.

$$\text{Ratio} = \frac{650+100+250}{525+440+900} = \frac{1000}{1865} = \frac{200}{373}$$

S5. Ans.(a)

Sol.

Distance travel by D and E on Friday = 1400 km

Distance travel by A, B and C on Tuesday = 1750

$$\text{Required percentage} = \frac{350}{1750} \times 100 = 20\%$$

S6. Ans.(d)

Sol.

$$\text{Growth rate} = \frac{\text{Final value} - \text{Initial value}}{\text{Initial value}} \times 100$$

$$\text{Nokia} = \frac{105 - 69}{69} \times 100 = \frac{36}{69} \times 100 \approx 52\%$$

$$\text{Samsung} = \frac{122 - 91}{91} \times 100 = \frac{31}{91} \times 100 = 34.06\%$$

$$\text{MI} = \frac{103 - 71}{71} \times 100 = \frac{32}{71} \times 100 = 45\%$$

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$$\text{Moto} = \frac{25 - 15}{15} \times 100 = \frac{10}{15} \times 100 = 66.67\%$$

$$\text{Lenovo} = \frac{163 - 100}{100} \times 100 = \frac{63}{100} \times 100 = 63\%$$

Hence, Moto witnessed highest growth rate in production from 2006 to 2012

S7. Ans.(a)

Sol.

Total Nokia phones= 620 thousand

Total MI phones= 605 thousand

required percentage $\frac{620}{605} \times 100 \simeq 102\%$

S8. Ans.(b)

Sol.

Total production of the company Nokia.

$$= 69 + 75 + 81 + 98 + 93 + 99 + 105$$

$$= 620 \text{ (in thousands)}$$

Total production of company Lenovo

$$= 100 + 120 + 102 + 131 + 143 + 154 + 163$$

$$= 913 \text{ (in thousands)}$$

$$\therefore \text{Ratio} = \frac{620}{913} = 620 : 913$$

S9. Ans.(a)

Sol. Total phones produced in 2008=380 thousand

Total phones produced in 2011=486 thousand

Required ratio=190:243

S10. Ans.(c)

Sol.

Growth rate in production of company from nokia 2006 to 2010

$$\text{Nokia} = \frac{93 - 69}{69} \times 100 = \frac{24}{69} \times 100 = 34.78\%$$

$$\text{Samsung} = \frac{110 - 91}{91} \times 100 = \frac{19}{91} \times 100 = 20.879\%$$

$$\text{MI} = \frac{92 - 71}{71} \times 100 = \frac{21}{71} \times 100 = 29.577\%$$

$$\text{Moto} = \frac{24 - 15}{15} \times 100 = \frac{9}{15} \times 100 = 60\%$$

$$\text{Lenovo} = \frac{143 - 100}{100} \times 100 = \frac{43}{100} \times 100 = 43\%$$

From above, samsung has witnessed minimum growth rate.

S11. Ans.(b)

Sol.

Total no. of beauty products sold by Nivea and Loreal together

$$= \frac{(72+90)}{360} \times 216000$$

$$= 97,200$$

Total no. of beauty products sold by Lakme and Oriflame together

$$= \frac{(96+27)}{360} \times 216000$$
$$= 73,800$$

$$\therefore \text{Required percentage} = \frac{97200 - 73800}{73800} \times 100 \simeq 32\% \text{ more}$$

Alternative method:

$$\text{Required percentage} = \frac{162-123}{123} \times 100 \simeq 32\% \text{ more}$$

S12. Ans.(c)

Sol.

$$\text{Since } 33\frac{1}{3}\% \rightarrow \frac{1}{3}$$

$$16\frac{2}{3}\% \rightarrow \frac{1}{6}$$

$$\therefore \text{other beauty cream} = 1 - \left(\frac{1}{3} + \frac{1}{6}\right) = \frac{1}{2} \text{ or } 50\%$$

\therefore other beauty cream sold by Nivea

$$= \frac{50}{100} \times \frac{72}{360} \times 216000$$
$$= 21,600$$

S13. Ans.(a)

Sol.

Required average no. of beauty products

$$= \frac{1}{3} \times \frac{(96+45+30)}{360} \times 216000$$

$$= \frac{1}{3} \times 1,02,600$$

$$= 34,200$$

S14. Ans.(d)

Sol.

$$\text{Required ratio} = \frac{(90+30)}{45+27}$$

$$= \frac{120}{72}$$

$$= \frac{5}{3}$$

S15. Ans.(c)

Sol.

Let cost price of each Lakme product = Rs. x

$$\therefore \text{Total C.P.} = \frac{96}{360} \times 216000x = 57,600x$$

ATQ,

$$57600x \times \frac{125}{100} = 17,28,000$$

$$\therefore x = 24$$



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S16. Ans.(d)

Sol. Required Difference = $128 - 100 = 28$ thousand = 28000

S17. Ans.(c)

Sol. Total number of watches sold by Titan in the given year = $119 + 99 + 141 + 78 + 120 + 159$
= 716 thousand

Total number of watches sold by HMT in the given year = $139 + 120 + 100 + 128 + 107 + 148$
= 742 thousand

Difference = $742 - 716 = 26$ thousand = 26,000

S18. Ans.(a)

Sol.

Average number of watches sold by Titan

Over the given period = $\frac{716}{6}$

= $119\frac{1}{3}$ thousand

S19. Ans.(d)

Sol.

Difference in 2002 = $139 - 119 = 20$ thousand

Difference In 2003 = $120 - 99 = 21$ thousand

Difference In 2004 = $141 - 100 = 41$ thousand

Difference In 2005 = $128 - 78 = 50$ thousand (maximum)

Difference In 2006 = $120 - 107 = 13$ thousand

Difference In 2007 = $159 - 148 = 11$ thousand

S20. Ans.(d)

Sol.

Required percentage = $\frac{100}{141} \times 100$

= 72 % (approx.)

S21. Ans.(d)

Sol. Male voters in Lucknow & Barabanki: Female voters in Jhansi, Mathura and Gorakhpur

= $(45 + 20) : (40 + 25 + 15)$

= 65 : 80

= 13 : 16

S22. Ans.(d)

Sol. Total number of male voters in all cities together

= $(45 + 25 + 20 + 35 + 40)$ thousands

= 165 thousand

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S23. Ans.(a)

Sol.

Male voters in Gorakhpur, Barabanki and Mathura

$$= (25 + 20 + 40) \text{ thousands}$$

$$= 85 \text{ thousand}$$

Female voters in Lucknow, Barabanki and Jhansi

$$= (35 + 30 + 25) \text{ thousands} = 90 \text{ thousands}$$

$$\text{Required percentage} = \frac{90 - 85}{90} \times 100\%$$

$$= 5.56\% \text{ less}$$

$$\approx 5.5\% \text{ less}$$

S24. Ans.(a)

Sol.

Total married voters in Lucknow and Mathura together

$$= (40 + 25) \text{ thousand} \times \frac{45}{100}$$

$$= 65000 \times \frac{45}{100}$$

$$= 29,250$$

S25. Ans.(c)

Sol.

Male voters in all cities = (45 + 25 + 20 + 35 + 40) thousand

$$= 165 \text{ thousand}$$

Female voters in all cities = (35 + 40 + 30 + 25 + 15) thousand

$$= 145 \text{ thousand}$$

Required difference = 165 - 145

$$= 20 \text{ thousand}$$

S26. Ans.(d)

Sol.

$$\text{Required percentage increase} = \frac{9-8}{8} \times 100 = 12.5\%$$

S27. Ans.(a)

Sol.

Required difference

$$= (5 + 4 + 7 + 6 + 4 + 7) - (8 + 6 + 7)$$

$$= 33 - 21$$

$$= 12 \text{ thousand}$$

S28. Ans.(b)

Sol.

Required average no.

$$= \frac{1}{6} \times (3 + 5 + 6 + 8 + 7 + 5)$$

$$= \frac{1}{6} \times 34$$

$$= 5.6666 \text{ thousands}$$

$$\approx 5666$$

S29. Ans.(c)

Sol. From the graph, it is clear that the second highest no. of bottles were in year 2005.

S30. Ans.(a)

Sol.

$$\text{Required percentage} = \frac{(5+7)}{8} \times 100 = 150\%$$

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