

Quiz Date: 23rd September 2020

Directions (1-5): The following table shows total no. of selected participants and % distribution of those selected participants of a city in all the five years. Study the table carefully to answer the related questions.

Years	Percentage of participants				
	Delhi (450)	Mumbai (750)	Lucknow (480)	Vadodara (640)	Bhopal (360)
2006	20%	16%	10%	20%	5%
2007	24%	20%	15%	15%	5%
2008	16%	24%	20%	10%	25%
2009	26%	12%	25%	25%	30%
2010	14%	28%	30%	30%	25%

Q1. How many participants are selected in DID in 2007 from all the cities together?

- (a) 333
- (b) 444
- (c) 344
- (d) 544
- (e) 555

Q2. No. of participants selected from Mumbai in the year 2006 is what percent more or less than that of Vadodara in the same year?

- (a) 6.5% more
- (b) 6.25% more
- (c) 6.25% less
- (d) 6.5% less
- (e) 8.25% more

Q3. What is the average no. of participants in the year 2008 from all the cities together who get selected in DID? (approximately)

- (a) 110
- (b) 95
- (c) 105
- (d) 100
- (e) 80

Q4. What is the ratio of participants selected from Lucknow in 2009 and 2010 together to those who were selected from Bhopal in the years 2009 and 2010 together?

- (a) 3 : 4
- (b) 4 : 3
- (c) 2 : 3
- (d) 3 : 2

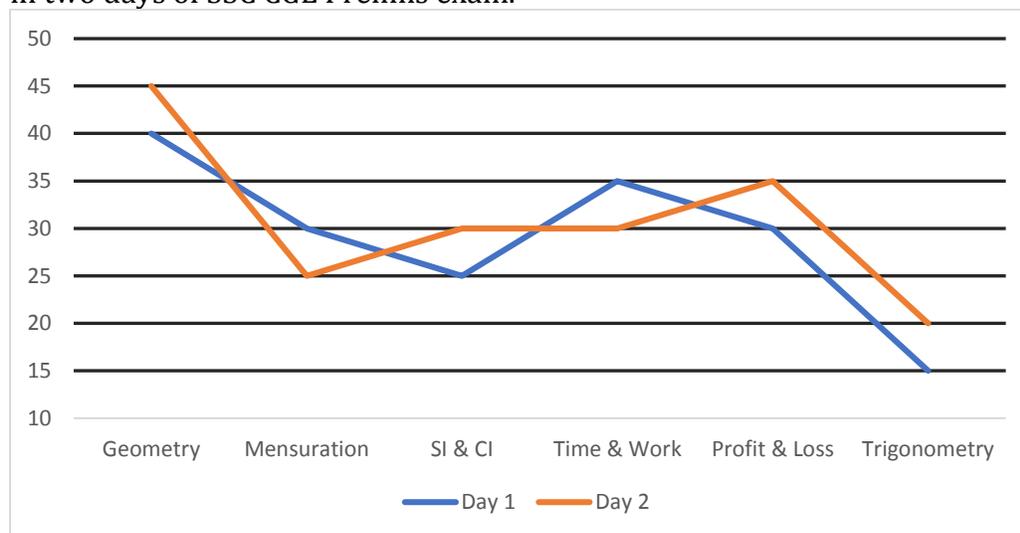
(e) 5 : 4

Q5. If in 2005, the no. of selected participants from Delhi and Mumbai were 20% and 40% less than that of 2006 respectively then find the difference between selected participants of Delhi and Mumbai in the year 2005?

- (a) 8
- (b) 20
- (c) 16
- (d) 4
- (e) 0

Directions (6-10): Study the following line graph carefully and answer the following questions.

The line graph shows the no. of questions asked from different topics of quantitative aptitude in two days of SSC CGL Prelims exam.



Q6. No. of questions asked on day 1 from Trigonometry is what percent of no. of questions asked from Time & work on the same day? (approximately)

- (a) 60%
- (b) 50%
- (c) 55%
- (d) 43%
- (e) 75%

Q7. Find the average no. of questions asked from all the given sections on day 1? (approximately)

- (a) 26
- (b) 34
- (c) 29
- (d) 18
- (e) 14

Q8. What is the ratio of no. of questions asked from profit & loss and Geometry together on day 1 to the questions asked from profit & loss and Mensuration together on day-2?

- (a) 6 : 5
- (b) 5 : 7
- (c) 7 : 5
- (d) 5 : 6
- (e) 7 : 6

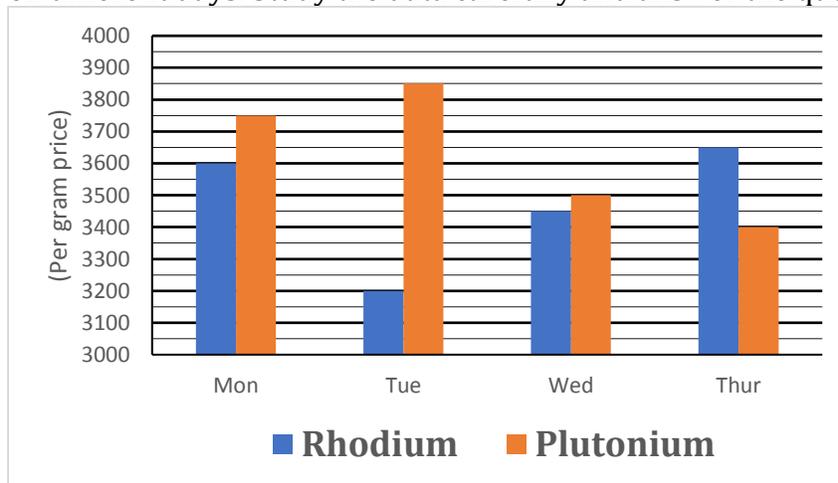
Q9. What is the difference between total no. of questions asked in both days from all the given sections together?

- (a) 15
- (b) 10
- (c) 25
- (d) 20
- (e) 30

Q10. Total no. of questions asked from CI & SI on day 1 are what percent less/more than that of Mensuration on day 1?

- (a) $16\frac{2}{3}\%$
- (b) $6\frac{2}{3}\%$
- (c) $11\frac{1}{9}\%$
- (d) 16%
- (e) $14\frac{2}{7}\%$

Directions (11-15): Bar chart given below shows per gram rate of Rhodium and Plutonium on different days. Study the data carefully and answer the question.



Q11. Sandeep buy 3 grams of Plutonium on Tuesday and 5 grams of Rhodium on Wednesday. Find the amount paid by him in total?

- (a) 28,400

- (b) 29,200
- (c) 28,600
- (d) 28,800
- (e) 28,200

Q12. Average per gram price of Plutonium on all the four days together is how much more than average per gram price of Rhodium on all the four days together.

- (a) 125
- (b) 150
- (c) 175
- (d) 200
- (e) 225

Q13. On Friday per gram price of both Rhodium and Plutonium increases by 10% and 20% respectively as compare to price on Thursday. Find the sum of per gram price of Rhodium and Plutonium on Friday?

- (a) 7825
- (b) 8095
- (c) 7755
- (d) 8460
- (e) 8120

Q14. What is the ratio of per gram price of Rhodium and Plutonium together on Monday to that on Thursday ?

- (a) 45 : 47
- (b) 47 : 45
- (c) 47 : 49
- (d) 49 : 47
- (e) 49 : 45

Q15. Aman bought 2 grams of both Rhodium and Plutonium on Wednesday and sell it on Thursday at the given price. Find the amount gained by him?

- (a) 100
- (b) 150
- (c) 250
- (d) 300
- (e) 200

Solutions

S1. Ans.(b)

Sol.

Required no. of participants

$$= \frac{24}{100} \times 450 + \frac{20}{100} \times 750 + \frac{15}{100} \times 480 + \frac{15}{100} \times 640 + \frac{5}{100} \times 360$$

$$= 444$$

S2. Ans.(c)**Sol.**

No. of selected participants from Vadodara in 2006

$$= \frac{20}{100} \times 640 = 128$$

No. of selected participants from Mumbai in 2006

$$= \frac{16}{100} \times 750 = 120$$

$$\therefore \text{Required percentage} = \frac{128-120}{128} \times 100$$

$$= 6.25\% \text{ less}$$

S3. Ans.(d)**Sol.** Required average

$$= \frac{1}{5} \times \left(\frac{16}{100} \times 450 + \frac{24}{100} \times 750 + \frac{20}{100} \times 480 + \frac{10}{100} \times 640 + \frac{25}{100} \times 360 \right)$$

$$= \frac{1}{5} \times (72 + 180 + 96 + 64 + 90)$$

$$= \frac{502}{5} \approx 100$$

S4. Ans.(b)**Sol.**

Selected participants from Lucknow in 2009 & 2010 together

$$= \frac{(25 + 30)}{100} \times 480$$

$$= 264$$

$$\text{And, that from Bhopal} = \frac{55}{100} \times 360$$

$$= 198$$

$$\therefore \text{Required ratio} = \frac{264}{198} = \frac{4}{3}$$

$$\Rightarrow 4:3$$

S5. Ans.(e)**Sol.**

Required difference

$$= \frac{80}{100} \times \frac{20}{100} \times 450 - \frac{60}{100} \times \frac{16}{100} \times 750$$

$$= 72 - 72$$

$$= 0$$

S6. Ans. (d)**Sol.**

$$\text{Required percentage} = \frac{15}{35} \times 100 = 42.85\%$$

$$\approx 43\%$$

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S7. Ans. (c)

Sol.

$$\text{Average no of Questions} = \frac{40+30+25+35+30+15}{6} = \frac{175}{6}$$

$$\approx 29$$

S8. Ans. (e)

Sol.

$$\text{Required ratio} = 30+40:35+25$$

$$= 7 : 6.$$

S9. Ans. (b)

Sol.

$$\text{Required difference} = 185-175$$

$$= 10$$

S10. Ans. (a)

Sol.

$$\text{Required percentage} = \frac{30-25}{30} \times 100$$

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

S11. Ans.(d)

Sol.

$$\text{Required amount} = 3 \times 3850 + 5 \times 3450$$

$$= 11550 + 17250 = 28,800$$

S12. Ans.(b)

Sol.

$$\text{Average per gram price of Plutonium on all the four days together}$$

$$= \frac{3750+3850+3500+3400}{4}$$

$$= \frac{14500}{4} = 3625$$

Average per gram price of Rhodium on all the four days together

$$= \frac{3600+3200+3450+3650}{4}$$

$$= \frac{13900}{4} = 3475$$

$$\text{Required difference} = 3625 - 3475 = 150$$

S13. Ans.(b)

Sol.

$$\text{Required amount} = 3650 \times \frac{11}{10} + 3400 \times \frac{12}{10}$$

$$= 4015 + 4080$$

$$= 8095$$

S14. Ans.(d)

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Sol.

$$\begin{aligned}\text{Required ratio} &= \frac{3600+3750}{3650+3400} = \frac{7350}{7050} \\ &= \frac{49}{47}\end{aligned}$$

S15. Ans.(e)

Sol.

Required amount

$$\begin{aligned}&= 2 \times [3650 - 3450 + 3400 - 3500] \\ &= 2 \times [100] \\ &= 200\end{aligned}$$

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