Quiz Date: 25th April 2020

Q1. The sum of three numbers is 177. If the ratio of the first to the second is 5:7 and that of second to the third is 21:23 then the second number is:

- (a) 21
- (b) 63
- (c) 37
- (d) 66
- (e) 77

Q2. The cost price of 42 articles is the same as the selling price of *x* articles. If the profit is $\frac{50}{3}$ %, then the value of *x* is:

- (a) 39
- (b) 33
- (c) 37
- (d) 36
- (e) 41

Q3. A can do a work in 15 days and B in 20 days. If they work on it together for x days, and 5/12 of work is left then find out the value of x :

- (a) 5 days
- (b) 7 days
- (c) 6 days
- (d) 4 days
- (e) 3 days

Q4. The compound interest on Rs. 50,000 at 9% per annum is Rs. 9405. The period (in years) is:

- (a) 3 years
- (b) 4 years
- (c) 2 years
- (d) 2.5 years
- (e) 3.5 years

Q5. A papaya tree was planted 3 years ago. It increases at the rate of 9.09% every year. If at present, the height of the tree is 1728 cm, what was its height when the tree was planted?

- (a) 1300 cm
- (b) 1400 cm
- (c) 1377 cm
- (d) 1433 cm
- (e) 1331 cm

Directions (6-10): Study the table carefully and answer the related questions. The following table shows the speed of three different trains and time taken by these trains to travel a certain distance.

| | Speed | Time | |
|---|----------|----------------|--|
| Р | 100 kmph | 1 hr and 15min | |
| Q | 120 kmph | 2 hr | |
| R | 90 kmph | 1hr | |

Q6. Find the ratio of distance covered by P to that of Q.

(a) 48 : 25

(b) 25 : 48

(c) 36 : 31

(d) 31 : 36

(e) 46 : 27

Q7. By what percent R should increase its speed so that it can cover the same distance in 45 min.

(a) 33 ¹/₃ %

(b) 25%

(c) 30%

(d) 40%

(e) 45%

Q8. Find the ratio of distances covered by all of them.

- (a) 25 : 18 : 48
- (b) 25 : 48 : 18
- (c) 48 : 25 : 18
- (d) 25 : 30 : 31
- (e) None of these



- Q9. Speed of A is how much percent more than speed of R.
- (a) $9\frac{1}{11}\%$ (b) $12\frac{1}{2}\%$

(c) 15% (d) $11\frac{1}{9}\%$ (e) ^{10%}

Q10. If speed of Q is reduced by 15%, then time will increase to cover the same distance by approximately what percent.

(a) 17.5%

(b) 20%

(c) 25%

(d) 15%

(e) 28%

Directions (11-15): The data in the table given below shows the selling price, profit obtained and discount percentage on 4 items of a store. Some data are missing in this table and you have to calculate missing data according to the questions. Study the data carefully and answer the following questions.

| the tata carefully and answer the following questions. | | | | | | | | |
|--|-------|--------------------|-------------|------------|--|--|--|--|
| | Items | Selling price (Rs) | Profit (Rs) | Discount % | | | | |
| | A | 450 | 120 | 10% | | | | |
| | В | - | 75 | 12.5% | | | | |
| | С | 750 | | 25% | | | | |
| | D | 1000 | 200 | | | | | |
| What is the marked price of the article A? | | | | | | | | |

Q11. V

(a) Rs 540

(b) Rs 460

(c) Rs 500

(d) Rs 600

(e) Rs 480

Q12. What is the selling price of the article B, if marked price of article B is 20% above the cost price?

(a) Rs 1775

- (b) Rs 1500
- (c) Rs 1850

(d) Rs 1625

(e) Rs 1575

Q13. If ratio between profit earned on article B and article C is 3 : 4, find the cost price of article C? (a) Rs 650 (b) Rs 600

- (c) Rs 680 (d) Rs 700
- (e) Rs 750
- Q14. Find the profit percentage earned on article D?
- (a) 20%
- (b) 22.5%
- (c) 15%
- (d) 25%
- (e) 17.5%

Q15. If profit amount on article B and discount amount of article B is same, then find the selling price of article B?

- (a) Rs 450
- (b) Rs 525
- (c) Rs 625
- (d) Rs 575
- (e) Rs 475



S1. Ans.(b) Sol. Let three numbers are a, b and c. a: b = 5:7; b: c = 21:23So, a: b: c = 15: 21: 23 or 15x : 21x : 23x15x + 21x + 23x = 177x = 3second number = $21x = 21 \times 3 = 63$

S2. Ans.(d) Sol. Profit = $\frac{50}{3}$ % = $16\frac{2}{3}$ % $=\frac{100}{6}\%$ Let C.P. = Rs. 100

S.P. = $100\left(100 + \frac{100}{6}\right) = Rs.\frac{700}{6}$ Cost price of 42 articles = selling price of x articles $42 \text{ CP} = x \times \text{SP}$ $\frac{SP}{CP} = \frac{42}{x}$ 6×100 x x = 36 S3. Ans.(a) Sol. 1 day work of A = $\frac{1}{15}$ Unit And 1 day work of B = $\frac{1}{20}$ Unit x days work of A and B together = $\frac{x}{15} + \frac{x}{20}$ and in x days work completed = $1 - \frac{5}{12} = \frac{7}{12}$ units $\frac{x}{15} + \frac{x}{20} = \frac{7}{12}$ $x\left(\frac{4+3}{60}\right) = \frac{7}{12}$ x = 5 daysS4. Ans.(c) Sol. CI = Rs. 9405Amount = 50,000+9405 = Rs. 59405 dda2 $59405 = 50000 \left(1 + \frac{9}{100}\right)^t$ $\frac{59405}{50000} = \left(\frac{109}{100}\right)^t$ $\left(\frac{109}{100}\right)^t = \frac{11881}{10000}$ $t = \left(\frac{109}{100}\right)$ t=2 years S5. Ans.(e) Sol. Growth rate = 9.09% $=\frac{100}{11}\%=\frac{1}{11}$ Let 3 years ago height of tree = x cm $x \times \frac{12}{11} \times \frac{12}{11} \times \frac{12}{11} = 1728 \text{ cm}$ x = 1331 cm S6. Ans.(b) Sol.



S10. Ans.(a) Sol. New speed of B $= 120 \times \frac{85}{100} = 102$ kmph Let the new time be t : 120 × 2 = 102 × t $t = \frac{240}{102}$ hrs. Percentage Increase in time $= \left(\frac{\frac{240}{102} - 2}{2}\right) \times 100$ = 17.5% S11. Ans (c) Sol. Marked price of article A = $450 \times \frac{100}{90} = Rs 500$ S12. Ans (e) Sol. let cost price of article B be Rs 10x. ATQ $10x + 75 = 10x \times \frac{120}{100} \times \frac{87.5}{100}$ 10x + 75 = 10.5xx = 150So, selling price of article B = 1500 + 75 = Rs 1575S13. Ans (a) Sol. Cost price of article C = $750 - 75 \times \frac{4}{3} = 750 - 100$ = Rs 650S14. Ans (d) Sol. Required profit percentage = $\frac{200}{1000-200} \times 100 = \frac{200}{800} \times 100$ = 25%S15. Ans (b) Sol. let marked price of article B be Rs 100x. ATQ 12.5x = 75*so*, selling price = $87.5x = 75 \times \frac{87.5}{12.5} = Rs$ 525

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