

20.01.2020

EVERWIN VIDHYASHRAM

Marks: 20

STD: VIII

TT - MATHS

Time: 30 min

I. Fill in the blanks:

1. Discount 2. Value added Tax 3. Market price
4. Overhead expenses 5. Good & Service Tax

II. Answer the following:

$$6. \text{ Priya got 10\% increase in her salary} = 100\% + 10\% = 110\%$$

Let original salary be 'x'

$$\rightarrow 110\% \text{ of } x = 99,000$$

$$\rightarrow \frac{110}{100} \times x = 99,000$$

$$x = \frac{99,000 \times 100}{110}$$

$$x = 90,000$$

Hence, Priya's original salary is ₹90,000

$$7. \text{ Let original price of the article be 100 \& GST} = 12\%$$

$$\text{Price after GST included} = ₹(100 + 12) = 112$$

$$\text{When the S.P is ₹112 then original price} = ₹100$$

$$\text{Therefore, when the SP is 560 then original price} = \frac{100}{112} \times 560$$

$$= ₹500$$

$$8. \text{ By given information SP of 1st Horse} = ₹10,000$$

$$\text{With gain} = 5\%$$

$$\rightarrow \text{CP of 1st horse} = \frac{100}{(100 + \text{gain}\%)} \times SP$$

$$= \frac{100}{100 + 5} \times 10,000$$

$$= \frac{1000000}{105}$$

$$= 9523.80$$

$$\text{Also, SP of 2nd horse} = ₹10,000$$

$$\text{With loss} = 10\%$$

$$\begin{aligned} \rightarrow \text{CP of 2nd horse} &= \frac{100}{(100 - \text{loss}\%)} \times SP \\ &= \frac{100}{100 - 10} \times 10,000 \\ &= \frac{100}{90} \times 10000 \\ &= \frac{100000}{9} = 11111.11 \end{aligned}$$

$$\begin{aligned} \text{Since, Total CP} &= ₹9523.80 + ₹11111.11 \\ &= ₹20634.91 \end{aligned}$$

$$\& \text{ Total SP} = ₹10,000 + ₹10000 = ₹20,000$$

Hero, Total CP > Total SP

$$\therefore \text{Overall Loss} = 20634.1 - 20,000 = 634.91$$