

Exercise 11A

## Answer:

$$SP = \left\{ \frac{(100 + G \sin \%)}{100} \times CP \right\}$$

$$= \left\{ \frac{(100 + 6)}{100} \times 950 \right\}$$

$$= \frac{106}{100} \times 950$$

$$= \frac{100700}{100}$$

$$= Rs. 1007$$

(ii) CP = Rs. 9600  
Gain = 
$$16\frac{2}{3}\% = \frac{50}{3}\%$$

$$SP = \left\{ \frac{\frac{(100 + G \sin \%)}{100} \times CP}{\frac{100 + \frac{50}{3}}{100}} \times 9600 \right\}$$

$$= \frac{\frac{350}{300} \times 9600}{\frac{3360}{3}}$$

$$= Rs. 11200$$

$$SP = \left\{ \frac{(100 - L \cos \%)}{100} \times CP \right\}$$

$$= \left\{ \frac{(100 - 4)}{100} \times 1540 \right\}$$

$$= \frac{96}{100} \times 1540$$

$$= \frac{147840}{100}$$

$$= Rs. 1478.40$$

(iv) CP = Rs. 8640  
Loss = 
$$12\frac{1}{2}\% = \frac{25}{2}\%$$

$$SP = \left\{ \frac{(100 - L \text{ oss \%})}{100} \times \text{ CP} \right\}$$

$$= \left\{ \frac{\left(100 - \frac{25}{2}\right)}{100} \times 8640 \right\}$$

$$= \frac{175}{200} \times 8640$$

$$= \frac{1512000}{200}$$

$$= \text{Rs. } 7560$$

## Answer:

Gain% = 
$$\left(\frac{\text{Gain}}{\text{CP}} \times 100\right) = \left(\frac{192}{2400} \times 100\right) = 8$$

Loss% = 
$$\left(\frac{L \text{ oss}}{\text{CP}} \times 100\right) = \left(\frac{198}{1650} \times 100\right) = 12$$

Gain% = 
$$\left(\frac{\text{Gain}}{\text{CP}} \times 100\right) = \left(\frac{800}{12000} \times 100\right) = 6.66$$

Loss% = 
$$\left(\frac{L \text{ oss}}{\text{CP}} \times 100\right) = \left(\frac{189}{1800} \times 100\right) = 10.5$$

## Answer:

$$ext{CP} = \left\{ \frac{100}{(100 + G \sin \%)} \times \text{SP} \right\}$$

$$= \left\{ \frac{100}{(100+10)} \times 924 \right\}$$

$$= \frac{92400}{110}$$
= Rs. 840

(ii) SP = Rs. 1755  
Gain = 
$$12\frac{1}{2}\% = \frac{25}{2}\%$$

$$CP = \left\{ \frac{100}{(100 + G \sin \%)} \times SP \right\}$$

$$= \left\{ \frac{100}{(100 + \frac{25}{2})} \times 1755 \right\}$$

$$= \left\{ \frac{200}{225} \times 1755 \right\}$$

$$= \frac{351000}{225}$$

$$= Rs. 1560$$

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