

Solutions by Dev Anoop

$$3(i) \quad SP = \text{Rs } 924, \quad g\% = 10$$

$$CP = \frac{100}{100 + g\%} \times SP$$

$$= \frac{100}{110} \times 924$$

$$= \text{Rs } 840$$

$$3(ii) \quad SP = \text{Rs } 8510, \quad l\% = 8$$

$$CP = \frac{100}{100 - l\%} \times SP$$

$$= \frac{100}{92} \times 8510$$

$$= \text{Rs } 9250$$

$$3(iii) \quad SP = \text{Rs } 1755, \quad g\% = 12.5$$

$$CP = \frac{100}{100 + g\%} \times SP$$

$$= \frac{100}{112.5} \times 1755$$

$$= \frac{40}{1125} \times 1755$$

$$= \text{Rs } 1560$$

$$3(iv) \quad SP = \text{Rs } 5600, \quad l\% = \frac{20}{3}$$

$$CP = \frac{100}{100 - \frac{20}{3}} \times 5600$$

$$= \frac{100}{280} \times 3 \times 5600$$

$$= \text{Rs } 6000$$

$$(4) \quad \text{cost of almirah} = \text{Rs } 13600$$

$$\text{O.E. (overhead expenses)} = \text{Rs } 400$$

$$CP = 13600 + 400$$

$$= \text{Rs } 14000$$

$$SP = \text{Rs } 16800$$

$$\text{Profit \%} = \frac{SP - CP}{CP} \times 100$$

$$= \frac{16800 - 14000}{14000} \times 100$$

$$= \frac{2800}{1400}$$

$$= 20$$