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Session 2021-22  
Main Term-2  
Zone-3, Set-1

Q-2



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$$\text{C's share} = \frac{3}{10}$$

$$\text{A's gain} = \frac{3}{5} \times \frac{3}{10} = \frac{9}{50}$$

$$\text{A's new share} = \frac{1}{10} + \frac{9}{50} = \frac{14}{50}$$

$$\text{B's gain} = \frac{2}{5} \times \frac{3}{10} = \frac{6}{50}$$

$$\text{B's new share} = \frac{2}{10} + \frac{6}{50} = \frac{16}{50}$$

$$\begin{aligned} \text{New profit-sharing ratio of A, B and D} &= \frac{14}{50} : \frac{16}{50} : \frac{4}{10} \\ &= \frac{14}{50} : \frac{16}{50} : \frac{20}{50} \\ &= 14 : 16 : 20 \\ &= \mathbf{7 : 8 : 10} \end{aligned}$$