

$$5 = 1 + 1 + 1 + 1 + 1 \rightarrow \text{odd} \rightarrow \underline{\text{order} - 1}$$

$$= \cancel{2} + 1 + 1 + 1 + 2$$

$$= 1 + 2 + 2 \rightarrow \underline{\text{even}} \rightarrow \underline{\text{order} - 2}$$

$$= 2 + 3$$

$$= 4 + 1$$

$$= 5 \rightarrow \text{odd} \rightarrow \underline{\text{order} 5}$$

$$= 3 + 1 + 1 \rightarrow \text{even} \rightarrow \underline{\text{order} 3}$$

So, maximum order of A5 is 5