

95) Given

$$\text{Offset value} = 800$$

$$\text{HLEN} = 8$$

$$\text{Total length} = 500$$

$$\text{MF} = 0$$

As Most fragment (MF) = 0 . It is the last fragment.

The fragment offset tells us till now how many bytes are sent.

$$\text{So, } 800 \times 8 = \underline{6400}$$

So the first byte of this datagram is 6400.

Given the total length = 500 (Header + data)

$$\text{As header length} = 8 \Rightarrow \text{Header length} = 8 \times 4 = 32$$

$$\begin{aligned} \text{So the length of data} &= 500 - 32 \\ &= 468 \end{aligned}$$

$$\begin{aligned} \text{So the last byte} &= 6400 + 468 - 1 \\ &= 6867 \end{aligned}$$

So

$$\text{first byte} = 6400$$

$$\text{last byte} = 6867$$

$$\text{position} = \text{last fragment}$$