

CSE421 Quiz 6

Name:

ID:

Section:

A segment of size 3584 bytes, including 48 bytes of header was fragmented for transmitting in a link with MTU=X bytes. The 9th packet has its MF bit reset. The last fragment's data size is given as (X- network layer header-2)

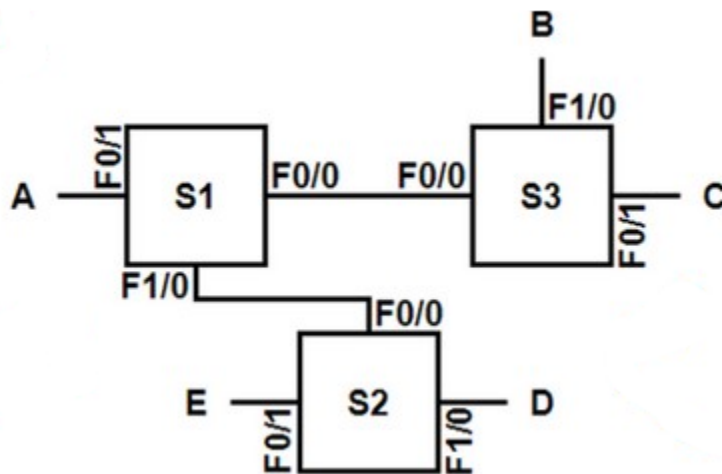
1.Find out the total number of fragmented packets. [2]

2.Calculate the value of X. [3]

3.If the fragment offset of last segment and second last segment is M and N, Is the $M/N = (X - \text{network layer header})$ statement true?

Provide a detailed explanation.

[4]



i.Host A sends a frame to E. For each switch on the path, state whether it floods or selectively forwards, and which ports it uses. [3]

ii.Immediately after that, E replies to A. Show the MAC table of S1 & S3 right after the reply is received at A [3]