25-Summer-CSE421-2 Quiz 7-A Marks: 15 Time: 20 mins

Name: ID: Serial:

A fragmented IPv4 packet is received at the end of the link with header parameters set as:

Version = 4, IHL = 30 bytes, TOS = 0, Total Length (16 bits) = 31, Identification = 5656, DF = 1, MF = 0, Fragmentation Offset (13 bits) = 8056, TTL = 45, Protocol = 17

The router that received the packet identified that **1216 Bytes** is the maximum data size that could be successfully sent via the link.

1. **Identify** the total number of fragments. **[5]**
2. **Identify** data size of the original datagram. **[4]**
3. **Calculate** the packet size of the last packet. **[4]**
4. **State** which field mentioned above helps to orderly reassemble the packets at the receiver's end. **[2]**

25-Summer-CSE421-2 Quiz 7-B Marks: 15 Time: 20 mins

Name: ID: Serial:

A fragmented IPv4 packet is received at the end of the link with header parameters set as:

Version = 4, IHL = 30 bytes, TOS = 0, Total Length (16 bits) = 31, Identification = 5656, DF = 1, MF = 0, Fragmentation Offset (13 bits) = 8109, TTL = 45, Protocol = 17

The router that received the packet identified that **1254 Bytes** is the maximum packet size that could be successfully sent via the link.

1. **Identify** the total number of fragments. **[5]**
2. **Identify** packet size of the original datagram. **[4]**
3. **Calculate** the data size of the last packet. **[4]**
4. **Find out** what the router would do if the DF was 0. **[2]**