1. In a router, why do we need the output queue

    A. the switching fabric is not fast enough

    B. the transmission rate of the output link is not fast enough

    C. traffic arrival rate is too fast

    D. none of the above

2. When a large IP packet is broken down into multiple smaller fragments, the resulting fragments will always be reassembled at the destination

    A. True   B. False

3. In an IPv4 header, the protocol field can be viewed as the glue that binds the network and the transport layer.

    A. True   B. False

4. A network interface

    A. acts as the boundary between a host and the physical link it connects to

    B. associated with an IP address

    C. acts as the boundary between a router and the physical link it connects to

    D. all of the above

5. Any host that joins a subnet with a 3.2.1.0/24 subnet mask will be required to have an address of the form _____