



9. Which of the following statement about Software Defined Networking (SDN) is NOT correct? ( )

- (A) Packet forwarding by SDN-controlled switches can be based on any number of header field values in the transport-layer, network-layer, or link-layer header.
- (B) The network is programmable through the network-control applications running in the control plan.
- (C) An SDN controller's functionality can be organized into a communication layer, a network-wide state management layer, and a routing layer.
- (D) Every entry in the forwarding table includes a set of header field values, a set of counters, and a set of actions to be taken when a packet matches a flow table entry.

10. Consider a cyclic redundancy check (CRC) code with 3-bit generator  $G = 101$ . Suppose that data bits  $D = 101010$ . What is the value of CRC bits  $R$ ? ( )

- (A) 00
- (B) 01
- (C) 10
- (D) 11

$1011101000$   
 Ans = 1 remainder

extra zeros =  $K-1$

11. Consider the network shown below. Suppose that AS1 and AS2 are running RIP for their intra-AS routing protocol. Suppose that AS3 and AS4 are running OSPF for their intra-AS routing protocol. Further assume that eBGP and iBGP are used to for the inter-AS routing protocol. Which of the following statement is NOT correct?

- (A) Router 2b learns about prefix  $x$  from RIP
- (B) Router 1a learns about prefix  $x$  from RIP
- (C) Router 3a learns about prefix  $x$  from eBGP
- (D) Router 4b learns about prefix  $x$  from iBGP