Week 1 Assignment 1

Due on 2016-08-15, 2016-08-15

A computer network is a distributed system wherein nodes share resources. For our purposes we can consider each computer to be a node. Our goal is to review some basic networking concepts. The solution for this assignment is due on 2016-08-15.

1. A computer network consists of the following:
   a. Physical Layer
   b. Data Link Layer
   c. Network Layer
   d. Transport Layer

2. Which of the following network device is used to interconnecting two LANs working on the same protocol?
   a. Bridge
   b. Hub
   c. Router
   d. None of these

3. Which of the following is a transport layer protocol?
   a. UDIP
   b. LDP
   c. TCP
   d. HTTP

4. Which layer does the following protocol use?
   a. Network Layer
   b. Data Link Layer
   c. Transport Layer
   d. Application Layer

5. Which of the following network devices forwards packets to the MAC address?
   a. Bridge
   b. Routers
   c. Hub
   d. None of these

6. Telephone system network is an example of
   a. Circuit switching
   b. Packet switching
   c. Time division
   d. None of these

7. A site of 1500 km is to be set from using 1Gbps over a circuit switched network than over ATM with 64Kbps and have a total cost of $10,000. The circuit establishment is $2000. The maintenance cost is $2000. The traffic cost is $0.05. Which of the following is the cost?
   a. $3000
   b. $300
   c. $200
   d. $50

8. Dynamic switching is
   a. Connection-oriented packet switching
   b. Connectionless packet switching
   c. Total of above
   d. None of these

9. Which protocol is used to acquire the MAC address of a host whose IP address is known?
   a. Dynamic Host Control Protocol
   b. Address Resolution Protocol
   c. User Datagram Protocol
   d. None of these

10. Which of the following protocol guarantees the order delivery of data?
   a. SSL
   b. TCP
   c. HTTP
   d. None of these