BCA-15   Fundamentals of Computer Networks

SET : 1

Section-A
(Very Short Answer Questions)

1. (i) What is the standard supported by Wireless LANS?

(ii) Describe the use of ISDN.

(iii) What is a line of sight network?

(iv) What is EPABX?

(v) Explain RJ-45.

(vi) Define Protocol.

(vii) What is Telemetry?

(viii) What is the number of links to connect n nodes in a mesh topology?

(ix) List out the advantages and drawbacks of bus topology.

(x) Define throughput.

Section-B
(Short Answer Questions)

2. Distinguish between data and signal.
3. What are the various modes of Data Transmission? Explain in brief.
4. Compare Hubs and switches.
5. Why multiplexing and de multiplexing is important in computer network.
6. Write short note on the following:
    a. HTTP
    b. FTP
    c. TELNET
    d. UDP
7. Explain Link state routing with suitable example. Compare with Distance vector routing.
8. What is URL? Discuss IP Address Classes with example.
9. What is firewall? Why security is need in Computer Network.

Section-C
(Long Answer Questions)

10. Explain various types of wireless transmission media.
11. What is the need of networking? Compare PAN, LAN,MAN and WAN
12. What is protocol stack? Explain working of all layer of OSI model given by IEEE
13. What is congestion? How it is controlled? Explain in detail.

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SET : 2

Section-A
(Very Short Answer Questions)

1. (i) What is the IEEE standard for Token ring network?
   (ii) What is congestion?
   (iii) List out the name of some Transport layer protocol.
   (iv) Name any two Message Digest algorithms?
   (v) List out the advantages and drawbacks of ring topology.
   (vi) Name types of cabling supported by Ethernet standard?
   (viii) What is the principle of light transmission in fibre?
   (viii) What is Baud?
   (ix) What is Noise?
   (x) What do you mean delay?

Section-B
(Short Answer Questions)

2. What do you mean by a "Periodic Signal"? And what are the three parameters characterize it?
3. On what parameters the quality of transmission depends in case of guided transmission media?
4. What is a modem? Briefly describe the operation of a dial-up modem.
5. Differentiate between Client server and peer to peer model of networking. Also give some advantages of each
6. Write short note on the following:
   a. Router
   b. Bridge
   c. Gateway
7. Compare the working of Session and Presentation layer of OSI model.
8. Why there is no sequence number in Frame Relay?
9. Compare Teleconferencing and Videoconferencing.

Section-C
(Long Answer Questions)

10. What do you understand by Network topologies? Explain various types of Network topologies.
11. What is Asynchronous Transfer Mode (ATM)? Explain its architecture.
12. What is the use of E-commerce? Explain their advantages and disadvantages.
13. What types of risk related to security are present in Computer Network? How we cure them.