

1411N540

Candidate's Seat No :

B.Sc. Sem.-5 Examination

CC 302

Computer Science

November-2022

Time : 2-30 Hours]

[Max. Marks : 70

**Q:1 Write the Following.**

- (i) What is topology? Explain all topologies in detail. (7)  
(ii) Explain types of networks in detail. (7)

**OR**

- (i) Explain transmission media in detail with its classification. (7)  
(ii) Explain types of network. (7)

**Q:2 Write the Following.**

- (i) Explain OSI model. (7)  
(ii) Explain various IEEE standards. (802.3, 802.4, 802.5) (7)

**OR**

- (i) Explain TCP/IP Model. (7)  
(ii) What is protocol? Explain IP, TCP, UDP, DHCP, DNS. (7)

**Q:3 Write the Following.**

- (i) Explain network card & repeaters its use and selection criteria. (7)  
(ii) Explain the use & working of bridge. (7)

**OR**

- (i) How to split up network? Explain in detail. (7)  
(ii) What is fiberoptic cable? How to distribute data interface with it & Explain with its advantages (7)

**Q:4 Write the Following.**

- (i) Explain HUB and VSAT techniques. (7)  
(ii) Explain multiple access techniques in detail. (7)

**OR**

- (i) What is FAX? Explain its architecture in detail. (7)  
(ii) Explain satellite communication in detail. (7)

**Q:5 Attempt any seven out of twelve.** (14)

1. What is a node?
2. Name the factors that affect the performance of the network.
3. What are the use of computer network?
4. MAN stands for...
5. DHCP stands for..
6. DNS stands for...
7. FTP stands for...
8. What is HUB?
9. What is VPN?
10. What is NIC?
11. What is NOS?
12. What is DOS?