

B.C.A. Part-II Semester-IV Examination
NETWORKING
Paper-4ST4

Time : Three Hours]

[Maximum Marks : 60

Note :— (1) All questions are compulsory.

(2) All questions carry equal marks.

(3) Assume suitable data wherever necessary.

1. (a) What do you mean by Network Topology ? Explain Ring topology with its advantages and disadvantages. 6
- (b) What is WAN ? Explain with suitable example. 6

OR

2. (a) Explain the Network concept with its goals and advantages. 6
- (b) Explain the following :
 - (i) Hybrid Network
 - (ii) Multipoint Network. 6
3. (a) Explain digital and analog data transmission with block diagram. 6
- (b) Describe the functionality of each layer in OSI model. 6

OR

4. (a) What is modem ? Describe its working with suitable diagram. 6
- (b) Explain the following :
 - (i) Media access control.
 - (ii) Error control in Network. 6
5. (a) What do you mean by Transmission Efficiency ? Explain. 6
- (b) Explain the Network protocol with suitable diagram. 6

OR

6. (a) Explain the following terms :
 - (i) TCP/IP
 - (ii) HTTP. 6
- (b) Describe the various strategies used for Network routing. 6

7. (a) Explain the following :

(i) MAN

(ii) WAN.

6

(b) What are the techniques to improve the performance of LAN ? Explain.

6

OR

8. (a) Explain the following :

(i) Token Ring

(ii) MAP.

6

(b) Explain switched Network in detail.

6

9. (a) What are the types of communication services ? Explain any one of them.

6

(b) What are the Network threats ? Explain.

6

OR

10. (a) Explain the packet switched Network.

6

(b) Explain the problems of unauthorised access.

6