

AT-443

B.C.A. (Part—II) Semester—IV Examination

NETWORKING

Paper—4 ST 4

Time : Three Hours]

[Maximum Marks : 60

Note :—(1) **ALL** questions are compulsory and carry equal marks.

(2) Draw well labelled diagram wherever necessary.

1. (a) What is Network ? Describe network goals. 6
- (b) Describe well known topologies used in network with its features. 6

OR

2. (a) What are the components of communication network ? Explain basic data communication network. 6
- (b) List the advantages and disadvantages of Network. 6
3. (a) What is Modulation ? What are the fundamental methods of analog modulation ? 6
- (b) What is Modem ? What are the standards of modem ? Explain. 6

OR

4. (a) What are the techniques to prevent errors in networking ? Explain. 6
- (b) Describe the functions of layer in OSI model. 6
5. (a) What is Routing ? Explain Decentralised Routing. 6
- (b) Explain the term :
 - (i) HTTP
 - (ii) FTP. 6

OR

6. (a) Explain Synchronous Transmission in detail. 6
- (b) What is transmission efficiency ? Explain. 6

7. (a) What is LAN ? What are the types of LAN ? Explain. 6
(b) Explain Ethernet standard of LAN. 6

OR

8. (a) What are the components of LAN ? Explain. 6
(b) What are the various ways to improve the performance of LAN ? 6
9. (a) Explain risk assessment in Network Security. 6
(b) What are the Network threats ? Explain. 6

OR

10. (a) Why network needs security ? Explain. 6
(b) What are the types of communication services ? Explain any two services. 6