

Bachelor of Computer Application (B.C.A.) Semester—VI Examination**DATA COMMUNICATION AND NETWORK—II****Paper—6**

Time : Three Hours]

[Maximum Marks : 50

N.B. :— (1) All questions are compulsory.

(2) Draw a well labelled diagram wherever necessary.

EITHER

1. (a) What is protocol ? Explain the characteristics of protocols. 5
- (b) Write short notes on Repeaters and Gateways. 5

OR

- (c) What is Internet Protocol (IP) ? Explain different services of Internet Protocol. 5
- (d) Explain OSI Environmental Layers. 5

EITHER

2. (a) Explain Network services. 5
- (b) Explain Lightweight transfer protocol. 5

OR

- (c) What is TCP ? Explain TCP services. 5
- (d) Explain ISO Transport Standards. 5

EITHER

3. (a) What services are provided by the session layers ? Explain. 5
- (b) Explain different types of modes used in FTP. 5

OR

- (c) Explain OSI session services with example. 5
- (d) Explain Session Layer Characteristics. 5

EITHER

4. (a) What is ISDN ? Explain conceptual view of ISDN. 5
- (b) Explain ISDN protocol architecture. 5

OR

- (c) Explain the principles of ISDN. 5
- (d) Explain B-ISDN architecture. 5

5. Attempt **ALL** :

- (a) Explain Routing protocol. 2½
- (b) Explain UDP packet format. 2½
- (c) What is DNS ? Explain. 2½
- (d) Explain Digital Network. 2½