

**Bachelor of Computer Applications (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 and carry equal marks.

(2) Draw neat and labelled diagram wherever necessary.

**EITHER**

1. (a) Explain working of connectionless Internetwork protocol. 5
- (b) Define the layers of OSI model in short. 5

**OR**

- (c) Explain connection oriented internetworking with diagram. 5
- (d) Explain layers of TCP/IP protocol. 5

**EITHER**

2. (a) Explain header format of TCP. 5
- (b) Explain packet fragmentation in transportation process. 5

**OR**

- (c) Explain UDP packet format. 5
- (d) Define the ISO transport standard. 5

**EITHER**

3. (a) Explain working of DNS. 5
- (b) Explain the services of OSI session layer and session management. 5

**OR**

- (c) Explain working of FTP. 5
- (d) Explain working of HTTP. 5

**EITHER**

4. (a) Write a note on Broadband ISDN. 5
- (b) Write a note on ISDN protocol. 5

**OR**

- (c) Explain architecture of ISDN. 5
- (d) Explain transmission structure of ISDN. 5

5. Attempt **ALL** :—

- (a) Define Router and Repeaters. 2½
- (b) Explain services required for networking. 2½
- (c) Explain the session characteristics. 2½
- (d) Write a note on ISDN user access. 2½