

**Bachelor of Science (B.Sc.I.T.) Semester-IV (C.B.S.) Examination****DATA COMMUNICATION AND NETWORK-II****Paper—III**

Time : Three Hours]

[Maximum Marks : 50

**N.B. :—** (1) All questions are compulsory and carry equal marks.

(2) Draw neat, labelled diagrams wherever necessary.

**EITHER**

1. (a) Differentiate between connection oriented internetworking and connectionless internetworking. 5
- (b) What is Protocol ? Explain different rules used to set Protocol for networking. 5

**OR**

- (c) Explain the following :
  - (1) Router
  - (2) Bridge. 5
- (d) Explain OSI model in detail. 5

**EITHER**

2. (a) Explain the TCP in detail. 5
- (b) Explain use of light weight transport protocol. 5

**OR**

- (c) Explain different ISO transport standards. 5
- (d) Explain network services used in transport protocol. 5

**EITHER**

3. (a) Explain OSI session services in detail. 5
- (b) Explain the following in detail :
  - (i) FTP
  - (ii) HTTP. 5

**OR**

- (c) Explain characteristics of session services. 5
- (d) Explain DNS in detail. 5

**EITHER**

4. (a) What is ISDN ? Explain structure of ISDN. 5
- (b) What is digital network ? Explain use of digital network in detail. 5

**OR**

- (c) Explain protocols used in ISDN. 5
- (d) Explain Broadband ISDN (B-ISDN) in detail. 5

5. Attempt all :

- (a) Explain the use of repeaters in network. 2½
- (b) Explain UDP packet format. 2½
- (c) Explain protocols used in session services. 2½
- (d) Differentiate between ISDN and Broadband ISDN. 2½