Bachelor of Science (B.Sc. I.T.) Semester—IV Examination

DATA COMMUNICATION AND NETWORK—II

Paper—III

Time : Three Hours]   [Maximum Marks : 50

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

(2)   Draw neat and labelled diagrams wherever necessary.

EITHER

1.   (a)   Explain the protocols to follow at Router-level.   5

     (b)   Write note on Session handling in TCP/IP protocol suit.   5

     OR

     (c)   Differentiate between connection oriented internetworking and connectionless internetworing.   5

     (d)   What is Protocol ? Explain different rules used to set protocol for networking.   5

EITHER

2.   (a)   Explain ISO Transport Standards in detail.   5

     (b)   Explain UDP Packet format.   5

     OR

     (c)   What are the transport services in Communication Network ? Explain.   5

     (d)   Explain TCP in detail.   5

EITHER

3.   (a)   Write in detail about :—

            (i)   HTTP

            (ii)   FTP.   5

     (b)   Explain different characteristics of Session Services.   5

     OR

     (c)   Explain OSI Session Services in detail.   5

     (d)   Discuss about DNS in detail.   5

EITHER

4.   (a)   What is Protocol ? Explain ISDN protocols in detail.   5

     (b)   Differentiate between ISDN and Broadband ISDN.   5

     OR

     (c)   Explain in detail about broadband ISDN (B-ISDN).   5

     (d)   Explain in brief architecture of ISDN.   5

5.   (a)   Write note on Gateways.   2½

     (b)   Explain light weight transport protocol.   2½

     (c)   Explain OSI Session Protocol.   2½

     (d)   Explain user access in ISDN.   2½