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 and labelled diagrams wherever necessary.

EITHER

1. (a) Elaborate working principle of TCP/IP Protocol.   5

    (b) Explain working principle of connection oriented internet working.   5

   OR

    (c) What is OSI reference model ?   5

    (d) Explain router-level protocol.   5

   EITHER

2. (a) Explain structure of TCP header and packet.   5

    (b) Write a note on UDP.   5

   OR

    (c) What are the ISO transport standard ?   5

    (d) What are the transport services ?   5

   EITHER

3. (a) Write a note on OSI session services.   5

    (b) Explain working of FTP.   5

   OR

    (c) Explain DNS mechanism.   5

    (d) Explain working of HTTP.   5

   EITHER

4. (a) Explain architecture of ISDN.   5

    (b) Explain transmission structure of ISDN.   5

   OR

    (c) Explain structure of interface of ISDN.   5

    (d) What do you mean by user access ? Explain B-ISDN.   5

5. Attempt **ALL** :

    (a) Define :

       (i) Routers

       (ii) Bridges

       (iii) Repeaters.   2½

    (b) Explain data packet in short.   2½

    (c) Explain session characteristics in short.   2½

    (d) Write a note on Broadband ISDN.   2½