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

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

(2) Draw neat and labelled diagrams wherever necessary.

EITHER

1. (a) Explain connection oriented Internetworking.

    5

    (b) Explain architecture of OSI Reference model.

    5

    OR

    (c) Write a note on session handling in TCP/IP protocol suit.   5

    (d) What are the protocols to follow at router level ?   5

EITHER

2. (a) Explain UOP packet format.   5

   (b) What are the network services in transport protocol ?   5

   OR

   (c) Explain TCP header with example.   5

   (d) What are the transport services in communication network ?   5

   EITHER

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

   (b) Explain process of file transfer protocol.   5

   OR

   (c) Write a note on DNS.   5

   (d) Explain execution of HTTP.   5

   EITHER

4. (a) Write a note on B-ISDN.   5

   (b) What are the ISDN interface ?   5

   OR

   (c) Explain architecture of ISDN.   5

   (d) Explain transmission structure of ISDN.   5

5. Attempt all :

   (a) Define the terms :

       (i) Bridges

       (ii) Routers.   2½

   (b) Explain lightweight transport protocol.   2½

   (c) What are the session characteristics ?   2½

   (d) Explain user access in ISDN.   2½