

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) Explain use of Bridges and Routers in networking. 5
- (B) What is Protocol ? Explain protocols used in connectionless internetwork. 5

OR

- (C) Explain OSI Model in detail. 5
- (D) Explain Router-level protocols in detail. 5

EITHER

2. (A) Explain different ISO Transport Standards. 5
- (B) Explain protocols used lightweight transport. 5

OR

- (C) Explain UDP Packet Format in detail. 5
- (D) Explain TCP in detail. 5

EITHER

3. (A) What are Session Services ? Explain role of session services in OSI model. 5
- (B) Explain the following :
 - (i) DNS
 - (ii) FTP. 5

OR

- (C) Explain different services of OSI session protocol. 5
- (D) Explain characteristics of session services. 5

EITHER

4. (A) What is ISDN ? Give architecture of ISDN. 5
(B) Explain transmission structure of ISDN. 5

OR

- (C) Explain protocols for ISDN. 5
(D) Explain Broadband ISDN (B-ISDN) in detail. 5
5. Attempt **all** :
- (A) Explain connection oriented internetworking in detail. 2½
(B) Explain transport services protocol. 2½
(C) Explain HTTP in detail. 2½
(D) Explain digital network in detail. 2½