

Bachelor of Computer Application (B.C.A) Semester–VI Examination

DATA COMMUNICATION AND NETWORK–II

Paper–6

Time : Three Hours]

[Maximum Marks : 50

N.B. :— (1) All questions are compulsory.

(2) Draw a well labelled diagram wherever necessary.

EITHER

1. (a) Explain the OSI model in detail. 5
- (b) What is protocol ? Explain the protocols used in connectionless Internetwork. 5

OR

- (c) Write short notes on :
 - (i) Bridges
 - (ii) Repeaters. 5
- (d) Explain the Router level protocols in detail. 5

EITHER

2. (a) Explain Lightweight Transport Protocol. 5
- (b) Explain the different ISO transport standards. 5

OR

- (c) Explain the TCP in detail. 5
- (d) Write a short note on transport services. 5

EITHER

3. (a) What are the session services ? Explain the role of session services in OSI model. 5
- (b) Write notes on :
 - (i) FTP
 - (ii) HTTP. 5

OR

- (c) What is DNS ? Explain in brief. 5
- (d) Explain the characteristics of session services. 5

EITHER

- 4. (a) Explain the architecture of ISDN. 5
- (b) Explain Broadband ISDN (B-ISDN) in detail. 5

OR

- (c) Write a note on ISDN protocol. 5
 - (d) Explain the transmission structure of ISDN. 5
5. Attempt all :
- (a) Write a short note on Routers. 2½
 - (b) Write a note on UDP. 2½
 - (c) Explain digital network in short. 2½
 - (d) What are interfaces of ISDN ? Explain. 2½