

Bachelor of Science (B.Sc. I.T.) Semester–I Examination
FUNDAMENTALS OF INFORMATION TECHNOLOGY
Paper–I

Time : Three Hours]

[Maximum Marks : 50

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

(2) Draw neat and labelled diagram wherever necessary.

EITHER

1. (a) Explain the basic components of Digital computer with block diagram. 5
- (b) What do you mean by Bus Organization ? Explain the function of each Bus. 5

OR

- (c) Write short notes on following Binary codes :
 - (i) BCD
 - (ii) ASC II 5
- (d) Write short notes on following :
 - (i) Assembly Languages
 - (ii) High Level Languages. 5

EITHER

2. (a) What do you mean by Cache Memory ? Explain function of Cache Memory. 5
- (b) Explain :
 - (i) RAM
 - (ii) ROM 5

OR

- (c) Explain working mechanism of Optical Disk. 5
- (d) Write short notes on :
 - (i) Zip Disk
 - (ii) Pen Drive. 5

EITHER

3. (a) Write short notes on :
 - (i) OMR
 - (ii) Flatbed Scanner 5
- (b) What is printer ? Explain impact printer in detail. 5

OR

- (c) List different types of plotters. Explain any one in detail. 5
- (d) Write short notes on :
 - (i) VDU
 - (ii) Voice Input. 5

EITHER

4. (a) What do you mean by topology ? Explain Tree and Mesh topologies. 5
(b) Differentiate LAN and WAN. 5

OR

- (c) Write short notes on :
(i) Bridge
(ii) Gateway 5
(d) What is peer-to-peer technology ? Give its architecture. 5
5. (a) What is instruction format ? 2½
(b) Write a short note on blue ray disk. 2½
(c) Explain OCR in detail. 2½
(d) Write a short note on Routers. 2½