

**Bachelor of Science (B.Sc.) IT
Semester–I (CBS) 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 diagrams wherever necessary.

EITHER

1. (a) Give functions of each unit of the computer. 5
(b) Do as directed
(i) $10100100 + 101011$
(ii) $1011101 - 101110$ 5

OR

- (c) What is Machine language and higher level language ?
Give importance of it. 5
(d) Explain ASCII, BCD and EBCDIC with example. 5

EITHER

2. (a) Give classification of primary and secondary memory.
Give its use. 5
- (b) Write notes on :
- (i) Optical Disk Storage
- (ii) Blu-Ray-Storage. 5

OR

- (c) Write notes on flash and cache memory. 5
- (d) Explain how data is organized on the hard disk. 5

EITHER

3. (a) What are the different forms of input to be fed to the computer ? Explain. 5
- (b) Explain mechanism used in touch screen. 5

OR

- (c) What is barcode ? Explain how barcoded are read ? 5
- (d) Give the classification of printer. Explain working of line printer. 5

EITHER

4. (a) Briefly discuss working of bluetooth device and infrared device. 5
- (b) Differentiate Tree Network and Mesh Network. 5

OR

- (c) For what all the following devices used :
- (i) Repeaters
- (ii) Bridge
- (iii) Routers
- (iv) Brouter
- (v) Gateway 5
- (d) Discuss LAN, WAN, MAN, Networks. 5

5. (a) Give the functions of buses used in the computer. 2½
- (b) List characteristics of good programming language. 2½
- (c) Discuss in brief MICR, OCR and OMR. 2½
- (d) Give architecture of client/server (c/s) network. 2½