

Bachelor of Science (B.Sc. I.T.) Semester-I (C.B.S.) 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) What is number system ?
Explain :
(i) Octal number system
(ii) Hexadecimal number system. 5
- (B) Explain the terms :
(i) Compiler
(ii) Assembler. 5

OR

- (C) Write short note on ASCII code and explain with example. 5
- (D) Describe the generations of computer languages. 5

EITHER

2. (A) Differentiate between static memory and dynamic memory. 5
- (B) Explain the working mechanism of pen drive. 5

OR

- (C) What auxiliary storage ? Explain the organisation of data on hard disk. 5
- (D) Write notes on :
(i) Flash memory
(ii) Cache memory. 5

EITHER

3. (A) Explain the working mechanism of flatbed scanner. 5
- (B) What are output devices ? Write short note on VDU. 5

OR

- (C) Write short notes on :
(i) Light pen
(ii) Voice input. 5
- (D) Explain the working mechanism of flatbed plotter. 5

EITHER

4. (A) What is network topology ? Explain bus and star topologies. 5
- (B) Explain the following terms in detail :
(i) Bridge
(ii) Routers. 5

OR

- (C) What is protocol ? Explain any two network protocols. 5
- (D) Explain client/server architecture in detail. 5

5. Attempt all :
(A) What is BCD code ? Explain with example. 2½
(B) Write short note on zip disk. 2½
(C) Explain MICR in brief. 2½
(D) What do you mean by infrared devices ? Explain. 2½