

**NRT/KS/19/2206**

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

**COMPUTER FUNDAMENTALS**

**Paper—I**

Time : Three Hours]

[Maximum Marks : 50

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

(2) Draw well labelled diagrams wherever necessary.

**EITHER**

1. (a) What is Bus ? Explain address and data bus in detail. 5
- (b) Draw block diagram of a computer. Explain the functions of each unit. 5

**OR**

- (c) Do as directed :
  - (i)  $(367)_{10} = (?)_2$
  - (ii)  $(7AC)_{16} = (?)_{10}$ . 5
- (d) Explain compiler and interpreter. 5

**EITHER**

2. (a) Explain the following memory in brief :
  - (i) FLASH
  - (ii) RAM. 5
- (b) Explain the working of blue ray and zip disk. 5

**OR**

- (c) What is a Memory ? Explain static and dynamic Memory. 5
- (d) Explain the structure and working of Hard Disk. 5

**EITHER**

3. (a) What is input device ? Explain voice input and light pen. 5
- (b) Write short notes on :
  - (i) OCR
  - (ii) MICR. 5

**OR**

- (c) Explain Dot Matrix and Laser Printer in detail. 5
- (d) Explain VDU and drum plotters. 5

**EITHER**

4. (a) What is Topology ? Explain Tree and Mesh Topology. 5
- (b) What is Network ? Explain LAN and WAN in detail. 5

**OR**

- (c) Describe peer-to-peer and client–server network. 5
- (d) Explain :
  - (i) Infrared devices
  - (ii) Routers. 5

5. (a) Explain ASCII code with example.  $2\frac{1}{2}$
- (b) Write a note on Pen Drive.  $2\frac{1}{2}$
- (c) Explain the working of Inkjet Printer.  $2\frac{1}{2}$
- (d) Explain WiFi Network.  $2\frac{1}{2}$