

## **PC-7795/N**

**N-21/2110**

### **FUNDAMENTALS OF INFORMATION TECHNOLOGY**

Paper – 101  
(Semester-I)

Time : Three Hours]

[Maximum Marks : 70

**Note :** Attempt *two* questions each from Section A and B.  
Section C will be compulsory.

#### **SECTION – A**

- I. Draw and explain the block diagram of computer. (10)
- II. What is memory? Explain different types of memories used in computers. (10)
- III. Discuss any three types of printers by explaining their printing mechanism. (10)
- IV. How decimal integers are converted into binary, octal and hexadecimal number systems? Explain with example. (10)

#### **SECTION – B**

- V. Explain the concepts of low level and high level languages. How high level languages are converted into machine language? (10)

VI. Define algorithm. How algorithm is written? Write an algorithm to search a number in an array. (10)

VII. Write the applications of Information Technology in the field of Science and Technology. (10)

VIII. Write the applications of E-Commerce. (10)

### SECTION – C

IX. (a) Write the characteristics of 5th generation computers.

(b) What is mainframe computer?

(c) What is the use of joystick?

(d) Write note on Digitizer.

(e) Write 1's complement and 2's complement of 100101.101.

(f) Multiply 100101 with 1011.

(g) Write note on ASCII.

(h) What is ISP? Give *one* example.

(i) What is virtual reality?

(j) What is B2C E-commerce? (10×3=30)