

(viii) Convert decimal 43 into binary.

(ix) How IT can be useful in Artificial Intelligence? Explain with example.

(x) Explain COBOL and FORTRAN.

Roll No. ....

Total Pages : 4

**74/N**

**J-1/2116**

## **FUNDAMENTALS OF INFORMATION**

### **TECHNOLOGY**

Paper-113

Semester-I

Time Allowed : 3 Hours]

[Maximum Marks : 75

**Note :** The candidates are required to attempt **two** questions each from Sections A and B carrying 15 marks each and the entire Section C consisting of 10 short answer type questions carrying 1½ marks each.

### **SECTION—A**

1. Define Computer. Explain ten characteristics of Computer with the relevant example of each. 15

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2. Discuss in detail compiler, interpreter and assembler and their uses in Computer. 15

3. Explain the working of Dot Matrix, character and Line Printers in detail. 15

4. Explain five Input devices in detail with the help of diagram of each. 15

### SECTION—B

5. Explain Decimal and Octal Number systems. Convert a Decimal number into Octal and vice versa with example. 15

6. What do you mean by Computer Network ? Differentiate LAN, MAN and WAN in detail. 15

7. Define Internet. How does it evolved ? Discuss ten advantages and disadvantages of Internet. 15

8. Explain the use of IT in Industry, Science and Technology. 15

### SECTION—C

9. Answer the following questions :  $1\frac{1}{2} \times 10 = 15$

(i) What is the difference between Light Pen and Digitizer ?

(ii) Differentiate Primary and Secondary Memory.

(iii) What is 4GL ? Also give example to justify your answer.

(iv) What is Internet ? Also explain www.

(v) What is a Web browser ? Give names of five Web browsers used over Internet.

(vi) Operating System is a System Software or Application Software ? Justify.

(vii) What is Assembler ? Mention two uses of Assembler.