

# **Computer & Programming-I**

## **Paper-BCA -121**

Time : Three Hours]

[Maximum Marks : 90

### **(Compulsory Question)**

1. Differentiate between the following :

- (a) Local & Global variable. 3
- (b) Call by value & Call by reference. 3
- (c) Hierarchy & Associatively. 3
- (d) Identifier & Keyword. 3
- (e) getch () & getche (). 3
- (f) Formal & Actual parameters. 3

### **UNIT - I**

- 2. (a) Explain the structure of a C program. Why do we select C language for writing system programs & why is it called middle level language ? 12
- (b) What is the purpose of scanf() & printf() functions ? 6
- 3. Describe various data types available in C language. 18

### **UNIT - II**

- 4. (a) Write a program in C language to find the sum of digits of N numbers & its reverse also. 9
- (b) Explain various bitwise operators available in C language using suitable examples. 9

5. (a) Compare the following statements :
- (i) Switch case & Nested if-else.
  - (ii) Conditional & Special operators. 5×2=10
- (b) Explain the precedence of operators available in C language. 8

### UNIT - III

6. Discuss various looping constructs available in C language using suitable example. 18
7. Write a short notes on the following :
- (a) Recursion.
  - (b) Function prototype.
  - (c) Break & continue statement. 6×3=18

### UNIT - IV

8. (a) Define an Array. What are the various ways to represent an two dimensional array in C language ? Explain with examples. 10
- (b) Write a program in C to find the transpose a matrix. 8
9. Explain the following storage class with examples :
- (i) Extern. (ii) Static.
  - (iii) Register. (iv) Auto. 18