

**Bachelor of Computer Application (B.C.A.) Semester-I (C.B.S.) Examination****"C" PROGRAMMING****Paper—II**

Time : Three Hours]

[Maximum Marks : 50

- Note :—** (1) All questions are compulsory and carry equal marks.  
 (2) Draw neat and labelled diagrams wherever necessary.

**EITHER**

1. (A) Write notes on :
  - (i) Sequence
  - (ii) Selection
  - (iii) Iteration. 5
- (B) Draw a flowchart to find the sum of digits of a given number. 5

**OR**

- (C) Write a note on Pseudocode. Give example. 5
- (D) Write an algorithm to find out the largest of three numbers. 5

**EITHER**

2. (A) What is looping ? Explain "while loop" in detail with syntax and example. 5
- (B) Explain different operators supported by C-language. 5

**OR**

- (C) Write a program to find the roots of a quadratic equation. 5
- (D) Explain the different datatypes in 'C' with byte length. 5

**EITHER**

3. (A) Explain the different storage classes in C with example. 5
- (B) Write a program in C for addition of two matrices. 5

**OR**

- (C) Write a program to sort the elements of one dimensional Array using Bubble's sort method. 5
- (D) Describe the various components of a user defined function. 5

**EITHER**

4. (A) What is a Data file ? Explain different file opening modes in C language. 5
- (B) Write a program in C to declare a structure to input and print name, age and marks of students. 5

**OR**

- (C) Explain Random Access mode in files handling with example. 5
- (D) Write a program in C to input 10 numbers and find their sum using pointer. 5

5. Attempt **all** :

- (A) Write advantages and disadvantages of flowcharting. 2½
- (B) Explain "Nested for loop" with example. 2½
- (C) Write a short note on Recursion. 2½
- (D) Explain errors that occur while opening and closing a file. 2½