

Roll No.....

Subject Code—2047-X

P.G.D.C.A. EXAMINATION

(First Semester)

(Re-appear)

MS-02

COMPUTER PROGRAMMING AND
PROBLEM SOLVING

Time : 3 Hours

Maximum Marks : 100

Note : Attempt any *Five* questions. All questions carry equal marks.

1. What do you mean by a flowchart ? What are its advantages and disadvantages ? What are various symbols used to draw a flowchart. Also draw a flowchart to find the largest among N numbers.

2. What are the various data types available in C ? Give the memory requirement of each type. What are the data type manipulators in C ? Explain.
3. Discuss various control structures available in C with suitable examples.
4. What is an array ? How are arrays declared and initialized ? Write a program in C to multiply two given matrices.
5. What are strings ? Explain string I/O functions. Write a program in C to read a string text and count the number of vowels in text.
6. Distinguish between the following :
 - (a) Actual and formal parameters
 - (b) Global and Local variables
 - (c) Auto and extern variables
 - (d) Array and struct
7. Explain pointers in 'C'. Also explain operation on pointers and array of pointers.

8. Write short notes on the following :

(a) File functions

(b) Recursion.