B.Sc. (IT) Semester—I
II : C PROGRAMMING PART–I

Time Allowed—3 Hours]   [Maximum Marks—75

Note :— Attempt any **five** questions. All questions carry equal marks.

1. (a) Compare between working of while and do-while loop.   5

    (b) Explain the process of passing a multidimensional array as an argument to a function.   10

2. What are the fundamental data types in C ? Explain the use of each type of data types.   15

3. (a) What is the difference between break and continue statement ? Explain with the help of examples.   5

    (b) What is the meaning of precedence and associativity of operators in C ? Describe the precedence and associativity rules.   10

4. Write down the purpose of switch statement. Summarize the syntax rules associated with the use of switch statement.   15

5. (a) Explain the process of initializing an array. Also explain the indexing for an array.   10

    (b) Why is it necessary for declaring a function in C ? What would be the effect of eliminating function declarations from C ?   5

6. What do you mean by recursion ? How is it different from a general function ? Explain the working of recursion with a suitable example. 15

7. Explain the working of decision table. How a decision table resembles with a switch-case structure ? 15

8. (a) Define a Pseudo code. Write down Pseudo code for any problem by explaining each of its steps. 10

   (b) Describe the basic building blocks of a flow chart. 5