**MATH 3.5**

**Third Semester M.Sc.(Mathematics)**

**Examination Aug/Sep-2015**

**Computer Programming**

**Time:-3Hours Max. Marks:-80**

**SECTION-A**

**Answer any five questions. (6\*5)**

1. What do you understand by Radix Sort?
2. Give a brief introduction to Algorithm and Flow Chart.
3. Define Time Complexity & Space Complexity.
4. What do you understand by Nesting of Loops?
5. Briefly write about Nesting of Structure.
6. Define Array of Pointers.
7. What is Link List? Mention its advantages and disadvantages.

**SECTION-B**

**Answer any two questions. (10\*2)**

1. Elaborate the Big-O (Upper Bound) Notation.
2. What are Conditional Statements? Describe various Conditional Statements with their syntax which are used for Decision Making.
3. Write a detail note on ‘Calling a Function’ with the help of an example.

**SECTION-C**

**Answer any two questions. (15\*2)**

1. Write a detail note on Queue. Discuss Array Implementation of Queue.
2. Discuss a Circular Queue with its implementation.
3. Describe Stack and its Operations. Write a program for array implementation of Stack.