M.Sc. (IT) Semester - 1

Paper - 3: Data Structures and Algorithm (2738) Dec 2016 Total Marks: 70 Time: 2 1/2 Hours Q-1 Answer the following question What do you mean by data structure? Give types of data structure and 7 define it. What do you mean by representation of data? Explain basic concept of 7 В data representation. OR Explain concept of time and space analysis of algorithm in brief. 7 Α Explain abstract data type and derive data type. В Q-2 Answer the following question Explain top down approach of algorithm design. Give advantages and 7 disadvantages of it. What do you mean by algorithm? Give features and advantages of 7 В algorithm. OR Explain bottom up approach of algorithm design? Give advantages and 7 disadvantages of it 7 Write note on structured approach of programming В

Write algorithm on insert and delete operation on double linked list.

Write note on double linked list.

7

7

Α