

B.Sc(computer Science) DEGREE EXAMINATION

OCTOBER/NOVEMBER

Second Year –fourth semester

MODEL PAPER

Paper-1: data Structures

Time: Three hours

maximum: 75 marks

Answer any five

(5X15=75)

1. a) What is data structure? Explain its types.
b) What is linked list? Explain different types of linked lists.
2. a) write a procedure to insert ,delete the elements in single linked list.
3. a) what is a stack. Explain its operations.
b) What is polish notation? Explain infix, prefix and postfix notations.
4. a) write a program to implement the circular queue operations.
5. a) write a procedure to create the binary search tree.
b) Explain tree traversing teachings.
6. a) explain threaded binary tree.
b) explain the parse trees.
7. a) Explain graph representation methods.
b).Explain DFS with example.
8. a) explain Quick sort with example.
b).write a program to implement the binary search.