



AF-3085

B.Sc. (Part - III)
Term End Examination, 2017-18

Paper - II

Information Technology

Time : Three Hours] [Maximum Marks : 50

Note : Answer **all** questions. All questions carry equal marks. Draw diagrams to justify your answer.

1. What is Queue ? How they can be represented in memory ? Explain with example.

OR

Convert the following infix operation into postfix operation :

B \uparrow B * C – D + E / F / G + H

2. What is Linked List ? Write the application and example of linked list.

OR

(2)

What is Circular Linked List ? Explain with example.

3. What is Binary Tree ? Write the properties of Binary Tree with example.

OR

Explain threaded Binary tree and B-tree with example.

4. What is Quick Sort ? Write its algorithm.

OR

Explain Heap sort with example.

5. What is DFS ? Explain with example.

OR

Find the Depth First Traversal of the following graph :

