



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 :

