



# AF-3085

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

Paper - II

Information Technology

*Time* : Three Hours]      [*Maximum Marks* : 50

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

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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**

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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 :

