XEV (H-II) - BCA (4)

2017

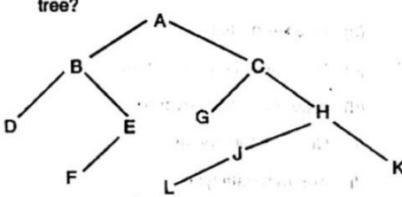
Time: 3 hours

Full Marks: 75

Candidates are required to give their answers in their own words as far as practicable. The questions are of equal value. Answer any five questions.

GROUP-A

1. What is a binary tree? Differentiate between strictly binary tree and complete binary tree. What will be the inorder traversal of the given tree?



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2. Construct the tree if preorder and inorder traversal of binary tree is given.

Preorder – ABCDFHJMKEGILN Inorder - ADJMHKFCINLGEB

- 3. Define a queue. How does it differ from a stack? Describe the insert and delete operation on a queue.
- Compare the advantages and disadvantages of implementing stack as an array with implementing a stack as a linked list.
- 5. Write short notes on any three of the following:
 - (a) Heap sort
 - Header nodes
 - Non linear Data Structure
 - Traversal of Binary tree
 - Network topologies
 - Abstract data type

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(2)

Contd.