

Department of Computer Engineering K. K. Wagh Institute of Engineering Education and Research Hirabai Haridas Vidyanagari, Amrut Dham, Panchavati, Nashik-422003

Academic Year: 2018-19 Semester: I

Course Name: Discrete Mathematics

Class: SE Division: B

Name of the Faculty: M. J. Patil

Name of Method: GATE Questions

Description: Students were given a questions from previous GATE exam and asked to solve it. Solution of each question was discussed afterword. Through this activity ,students solved questions with more difficulty level. This is useful for solving MCQs in online exam.

Sample GATE Questions

- Q1) The postorder traversal of a binary tree is 8,9,6,7,4,5,2,3,1. The inorder traversal of the sametree is 8,6,9,4,7,2,5,1,3. The height of a tree is the length of the longest path from the root toany leaf. The height of the binary tree above is _____.
- Q2) L et G be a simple undirected graph. Let TD be a depth first search tree of G. Let TB be a breadth first search tree of G. Consider the following statements.
- (I) No edge of G is a cross edge with respect to TD. (A cross edge in G is between two nodes neither of which is an ancestor of the other in TD.)
- (II) For every edge (u,v) of G, if u is at depth i and v is at depth j in TB, then |i j| = 1.

Which of the statements above must necessarily be true?

- (A) I only (B) II only
- (C) Both I and II (D) Neither I nor II

Impact of Innovative Method:

It helped students to analyze the given problem statement and apply proper formulae to solve the problem.

Note: For feedback please email us at migmetkar@kkwagh.edu.in