Dr. Jugal Kurner.

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

(T-1 Examination Feb-2020) B.Tech. 8TH Semester

COURSE CODE: 18BIWCI835

MAX. MARKS: 15

COURSE NAME: Design and Analysis of Multi Dimensional Data Structure

COURSE CREDITS: 4

MAX. TIME: 1 Hrs

	questions are compulsory. Carrying of mobile phone during examinations will case of unfair means.	be
Q.1[CO1]	What are the different categories of multi dimensional data structure? How to arrange multi dimensional point in space?	(3)
Q.2[CO1]	How the kd tree is different from B tree and B ⁺ tree? Explain the building mechanism of kd tree.	(3)
Q.3[CO1]	What are the essential properties for the binary search tree? Construct a Binary Search Tree (BST) for the following sequence of numbers 50, 70, 60, 20, 90, 10, 40, 100, 2, 64, 8	(3)
Q.4[CO2]	Explain the nearest neighbor concept with respect to kd tree.	(3)
Q.5 [CO2]	What are the different searching queries applicable for kd tree data structure? Explain in detail.	(3)