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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-2 EXAMINATION-October, 2018

M.TechI Semester

COURSE CODE:10M11CI111

MAX. MARKS:25

COURSE NAME: Advanced Data Structures

COURSE CREDITS: 3

MAX. TIME: One and HalfHour

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

Q1. Explain in detail with example of each for trees – quad, R- and interval. [2.5 * 3 marks]

Q2. Describe binomial heap explaining each step with the help of example. Give its advantages and disadvantages. [5, 1.5 marks]

Q3. Explain in detail with the help of example, Tarzan's implementation of Fibonacci heap. [6 marks]

Q4. Give descriptions for – (a) soft heap

(b) k-ary tree

(c) multisets

(d) rank/select

[1.5*2, 1*2 marks]