

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2015

B.Tech VII Semester, M.Tech I Semester

COURSE CODE: 10M11CI111

MAX. MARKS: 15

COURSE NAME: Advanced Data Structures

COURSE CREDITS: 03

MAX. TIME: 1 HR

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

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1. Write short notes on followings:

a) Cuckoo hashing, b) skip list, and c) amortized cost

(2+2+2)

2. Splay 12, 6, 5, 11, 9, 7, 10.

(construct splay tree by inserting the numbers sequentially)

(3)

3. Derive the analysis

(2+2+2)

a) Bipartite graph of cuckoo hashing

b) False positive rate in bloom filter

c) Delete min in binomial heap