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Exam Roll No. . 0.2.314 902015

END TERM EXAMINATION

SECOND SEMESTER [BCA] MAY-JUNE 2016

Paper Code: BCA-108

Subject: Data Structure Using C

Maximum Marks: 75

Note: Attempt any five questions including Q no.1 which is compulsory.

Q1 Define the following terms:-(a) Priority Queue (5x5=25)14b) Linked List (c) Binary tree (d) Selection sort (e) Sparse matrix Q2 Write a C program to perform PUSH and POP operations on a stack. (12.5)(a) Differentiate between linear search and Binary search. Q3 (b) Write an algorithm to convert an infix expression to Post fix expression.(6) (6.5)Write an algorithm to sort a number list using Insertion sort and provide an 04 example to verity the algorithm. (a) What do you know about B-Tree? Write the steps to create a B-Tree? (7.5) Q5 (b) The following sequence gives the pre-order and inorder of the Binary Tre T: Pre Order: Α D G C Η Inorder: D В Η Draw the diagram of the tree. (5) Write a program to search an element using Binary search technique. Q6 (12.5)Q7 (a) Define Queue. In what ways a queue can be implemented? (b) Write code for insertion and deletion in a queue. (5)(7.5)Q8 Write an algorithm for inserting a node in linked list: (a) At the Beginning (12.5)(b) At the end (c) At the specified location

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