END TERM EXAMINATION

SECOND SEMESTER [BCA] MAY- JUNE 2015

Pape	r Code: BCA-108	Subject: Data Structure using C (BATCH- 2011 Onwards)
Time	: 3 Hours	Maximum Marks: 75
Note:	Attempt any five questions include	ding Q.No 1 which is compulsory.
Q1	Answer the following questions:-	(5x5=25)
	(b) What do you mean by binary so conventional binary tree?(c) What is circular queue and how it	is it different from linear queue?
Q.2	of two sparse matrices.	natrix? Write a procedure for addition (6) . Also write a C function to evaluate a (6.5)
Q.3	(a) Write C function that finds the to (b) Write a C function to concatenate	otal number of nodes in a linked list.(6) te two input strings. (6.5)
Q.4	of height h.	tal number of nodes in a binary tree (6) ne insertion and deletion operations in (6.5)
Q.5		post order traversals of a binary tree left and right skewed binary search (12.5)
Q6	What is AVL tree? Explain various po explain various rotations to balance	e an AVL tree. (12.5)
Q7	(a) Describe B-tree indexing with sui(b) Explain different types of searchineexample to illustrate binary search	ing techniques Give a suitable
Q8	(a) Discuss the role of 'Hashing in da other searching techniques?.(b) Write an algorithm for merge sort	ata searching. How is it different from (6) t. (6.5)

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