END TERM EXAMINATION

SECOND SEMESTER [BCA] MAY- JUNE 2015

SECOND SEMESTER BCA MAY- JUNE 2015			
Pape	er Code: BCA-108	Subject: Data Structure usin (BATCH- 2011 Onward	
Time: 3 Hours Maximum Marks: 75			
Note	: Attempt any five questions inc	luding Q.No 1 which is compulso	ry.
Q1	conventional binary tree? (c) What is circular queue and how	on sort with suitable example. y search tree? How is it different w is it different from linear queue? In linear and non linear data structu	
Q.2	of two sparse matrices.	e matrix? Write a procedure for addi	(6)
Q.3	(a) Write C function that finds the (b) Write a C function to concatenate	total number of nodes in a linked late two input strings.	ist. (6) (6.5)
Q.4	of height h.	total number of nodes in a binary t the insertion and deletion operation	(6)
Q.5		d post order traversals of a binary e left and right skewed binary se (1	
Q6	What is AVL tree? Explain various explain various rotations to balance	s possible nodes types in this tree. Acce an AVL tree.	Also 1 2.5)
Q7	(a) Describe B-tree indexing with s(b) Explain different types of search example to illustrate binary sea	ching techniques Give a suitable	(6) (6.5)
Q8	(a) Discuss the role of 'Hashing in other searching techniques?.(b) Write an algorithm for merge so	data searching. How is it different fort.	from (6) (6.5)

