Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – I • EXAMINATION – WINTER 2012

Subject code: 710208N		code: 710208N Date: 16-01-2	16-01-2013	
U		Name: Advance Data Structure .30 pm – 05.00 pm	: 70	
Instr	uct	ions:		
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	operations in detail.	07	
	(b)	Explain the skew and split operations in AA-trees with suitable example.	07	
Q.2	(a) (b)	1 1 1	07 07	
	(b)	Explain the grid files with list of operations on grid files.	07	
Q.3	(a)	Describe the partitioned hash function.	07	
	(b)	Describe the polyphase merge with suitable example. OR	07	
Q.3	(a) (b)	What is external sorting? Give the model for the external sorting. Describe the minmax principle in detail with its use.	07 07	
Q.4	(a)	Explain the path compression with example.	07	
	(b)	List and explain the applications of priority queues. OR	07	
Q.4	(a) (b)	Explain the basic heap operations with suitable example. Describe the binomial queues.	07 07	
	(D)	Describe the binofinal queues.	07	
Q.5	(a) (b)	Describe the data cubes with proper example. Define R-tree and explain any one operation in detail. OR	07 07	
Q.5	(a)	011	07	
	(b)	č	07	
