## M.C.A. IInd Year Third Semester (CGS) 15520: File Structures & Data Processing: 3 MCA 2

P. Pages: 2 Time: Three Hours			THE TITLE WITH FRATE RICH TREAT	<b>AV - 3275</b> Max. Marks : 80	
	2. As 3. III 4. Di		Oue credit will be given to neatness and adequate dimensions. Assume suitable data wherever necessary. Illustrate your answer necessary with the help of neat sketches. Oraw sketches/Diagram with pen only. Use of pen Blue/Black ink/refill only for writing the answer book.		
1.	a)	Explain	the concept of clusters and Extents.	8	
	b)	Explain	in details the organization of Disks.	7	
			OR		
2.	a)	How wi	Il you detect End-of-file in C++ stream? Explain in detail C stream seek function.	8	
	b)	Explain	with example organizing Tracks by Block.	7	
3.	a)	What is	Record key? Explain in detail.	7	
	b)	What is	sequential search? When sequential searching is good? Explain.	6	
			OR		
4.			field structure? Explain four method for maintaining the identity of fields in by giving example.	13	
5.	a)	What is	data compression? Explain the main objective behind data compression.	5	
	b)		secondary key? Explain retrieval of records using combination of secondary keys ag example.	. 8	
			OR		
6.	a)	Explain	the concept of selective indexes and binding.	7	
	b)	Explain	the operations required to maintain an indexed file.	6	
7.	a)	Explain	with example sorting and merging utilities in Unix.	7	
	b)	What is	heap? Give the properties of heap.	6	
			OR		
8.	a) .	Give the	e summary of the consequential processing model.	7	
	b)	Explain	Tapes versus Disks for External sorting.	6	

9.	<ul> <li>Explain Paged Binary tree. What are the problems associated with paged tree? E brief.</li> </ul>		7
	b)	Give the formal definition of B-tree properties.	6
		OR	
10.	a)	Explain in detail B* trees.	7
	b)	How AVL tree is better than a simple Binary search tree?	6
11.	a)	Explain how extendible hashing works?	7
	b)	Explain any two collision Resolution techniques.	6
		OR	
12.		What is Hashing? Explain in detail by giving example. Explain with example "Fold and Add" Hashing algorithm.	13

大大大大大大大大