(20 Marks)

USN			71			

## Sixth Semester B.E. Degree Examination, June/July 2014 File Structures

Tin	1e: 3	Max. M  Note: Answer FIVE full questions, selecting  at least TWO questions from each part.	arks:100
1	a. b. c.	PART – A  With a neat sketch, explain UNIX directory structure.  Differentiate between the physical file and the logical file.  Explain the following functions:  i) Open a file  ii) Close a file	(05 Marks) (05 Marks) (10 Marks)
2	a. b.	What is a record? Explain different methods for organizing records of a file with explain briefly how to manipulate buffers using classes.	example. (11 Marks) (09 Marks)
3	a. b.	What are the limitations of binary search and internal sorting? Explain the different operations required to maintain indexed file.	(08 Marks) (12 Marks)
4	a. b.	Explain how co-sequential processing is implemented in a general ledger program Explain how much time a merge sort takes to sort a given file.	.(10 Marks) (10 Marks)
5	a. b. c.		es. (10 Marks) (06 Marks) (04 Marks)
6	a. b.	With an example, explain adding a simple index to the sequence set.  Explain how to load a simple prefix B+ tree.	(10 Marks) (10 Marks)
7	a. b.	What is Hashing? Explain the three different steps used in a simple hashing algorithm Briefly explain the different collision resolution techniques by progressive overflo	(10 Marks)

- Write short notes on:
  - a. Extendible hashing
  - b. Pinned records
  - c. CD-ROM strengths and weaknesses
  - d. K-way Merge