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Roll No

MCADD-703

M.C.A. (Integrated), VII Semester

Examination, November 2019

File Structure

Time : Three Hours

Maximum Marks : 70

Note : i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Explain the functions open, read and write with parameters. 7
- b) Explain the different costs of disk access. 7
2. a) Explain evolution of file structure design. 7
- b) What are the various ways of organizing records in a file? Explain each with example. 7
3. a) Explain the term I/O buffer and I/O processing with example. 7
- b) Explain the concept of reading variable length records from the files. 7
4. a) When a sequential search is good? What are the Unix tools used for sequential search. 7
- b) What is Data compression? Explain different techniques available for data compression. 7

5. a) Explain the concept of retrieving records by keys. 7
b) What are B+ trees? Explain with an example, the creation of B+ trees. 7
6. a) What are the properties of B+ tree? Explain worst case search. 7
b) Explain with an example adding a simple index to the sequence set. 7
7. a) What is Hashing? Write an hashing algorithm and explain with an example. 7
b) Explain the different collision resolution techniques. 7
8. a) Explain how extendable hashing works? 7
b) Explain dynamic and linear hashing with figures. 7
