Roll No ....

MCADD-703

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

Examination, May 2022

File Structure

Time : Three Hours

Maximum Marks : 70

Note : i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Explain evolution of file structure design.

b) What are the various ways of organizing records in a file? Explain each with example.

2. a) Write down the strength and weakness of CD-ROMS.

b) Discuss the method to open, read and write and closing the files in C.

3. Write short notes on (any two)

a) Space fragmentation

b) Storage compaction

c) Hex-dump

4. a) Explain the term I/O buffer and I/O processing with example.

b) Explain the concept of reading variable length records from the files.

5. a) What is an Index? Discuss the basic operations on an indexed, entry sequenced file.

   b) Define B+ tree. Write down its properties. Give an example and draw B+ tree.

6. a) Explain buffer strategies in detail.

   b) Write an account on bottlenecks related to buffers.

7. a) Explain how extendable hashing works?

   b) Explain dynamic and linear hashing with figures.

8. Write short notes:

   i) Hashing files on CD-ROM

   ii) Retrieving record by keys

   iii) Record in C

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