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Sixth Semester B.E. Degree Examination, June/July 2019
File Structures

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1   a. What is file structures? Explain its history. **(08 Marks)**
    b. What are physical and logical files? Explain basic file handling operations. **(08 Marks)**

OR

2   a. How data is organized in CD-ROM? Explain strength and weakness of CD-ROM. **(08 Marks)**
    b. Briefly explain field and record structures. **(08 Marks)**

Module-2

3   a. What is data compression? Explain different compression techniques. **(08 Marks)**
    b. Briefly explain reclaiming spaces in files. **(08 Marks)**

OR

4   a. What is key sorting? Explain with example. **(08 Marks)**
    b. What is index? What are the operations required to maintain an index file? **(08 Marks)**

Module-3

5   a. What is co-sequential processing? Explain matching and merging. **(08 Marks)**
    b. Explain sorting large files on disk. **(08 Marks)**

OR

6   a. What is B-tree? Explain worst case search depth. **(08 Marks)**
    b. With example, explain deletion, merging and redistribution in B-trees. **(08 Marks)**

Module-4

7   a. What is indexed sequential access? With example explain maintaining a sequence set.
    (08 Marks)
    b. What is simple prefix B+ tree? Explain with example. **(08 Marks)**

OR

8   a. Give the internal structure of index set block. **(08 Marks)**
    b. Compare and contrast B, B+ and prefix B+ trees. **(08 Marks)**

Module-5

9   a. What is hashing? Explain different hashing methods. **(08 Marks)**
    b. What is collision? Explain collision resolution by progressive overflow. **(08 Marks)**

OR

10 a. Explain the working of extendible hashing. **(08 Marks)**
    b. Briefly explain linear hashing. **(08 Marks)**

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