

# CBCS SCHEME



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15IS62

## 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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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.