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.

Sixth Semester B.E. Degree Examination, Dec.2019/Jan.2020 File Structures

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

| | | PART - A | |
|---|----------|--|-------------|
| 1 | • | | (04 Marks) |
| 1 | a. b. | Describe the relation services. | (10 Marks) |
| | c. | What is seeking? How it is supported in 'C' streams and 'C++' streams. | (06 Marks) |
| | C. | What is seeking. How it is supported in | |
| 2 | a. | | (12 Marks) |
| | b. | What is the advantage of using inheritance for record buffer classes? Explain. | (08 Marks) |
| | | 5 | |
| 3 | • | Define data compression. Explain irreversible compression techniques. | (06 Marks) |
| 3 | a. b. | Explain the key-sorting technique and their limitations. | (06 Marks) |
| | | What is inverted list? Discuss it with an example. | (08 Marks) |
| | c. | What is inverted list. Disease it want an arrange in | |
| | | The state of the s | (10 Marks) |
| 4 | a. | Explain the object – oriented model for implementing co-sequential process. | (10 Marks) |
| | b. | Briefly explain the different methods used to sort files on a tape. PART – B | |
| 5 | a. | Explain B-tree methods for search () and insert () with necessary C++ code. | (08 Marks) |
| | b. | Explain deletion, merging and redistribution of elements in B-tree. | (12 Marks) |
| | | 67 37 P | |
| 6 | a. | Explain the simple – prefix B + tree. | (05 Marks) |
| Ů | b | Compare the strengths and weakness of B + trees and B - tree. | (05 Marks) |
| | c. | Explain the block splitting and merging due to insertion and deletion in the sec | quence set, |
| | | with examples. | (10 Marks) |
| | | 21 67 | |
| 7 | a. | What is Hashing? Explain the simple hashing algorithm. | (10 Marks) |
| | b. | Explain the double hashing and chained progressive overflow collision | resolution |
| | | techniques. | (10 Marks) |

(10 Marks) Explain the working procedure of extendible hashing. 8

Explain briefly linear hashing and dynamic hashing method.

(10 Marks)