

Code: CS4T3

**II B.Tech - II Semester–Regular/Supplementary Examinations–April 2018**

**FILE STRUCTURES  
(COMPUTER SCIENCE & ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

**PART – A**

Answer *all* the questions. All questions carry equal marks

11 x 2 = 22 M

1. a) Write list of terms in storage hierarchy.
- b) Distinguish between physical and logical files.
- c) What are the strengths and weaknesses of a CD-ROM ?
- d) Define header records.
- e) Define buffer class for delimited text files.
- f) What is an index?
- g) Define simple index for entry – sequential files.
- h) Why separators instead of keys?
- i) What is the importance of index sequential access?
- j) List the collision resolution techniques.
- k) Define packing density.

## PART – B

Answer any **THREE** questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) What is buffer management? Explain a journey of a byte. 8 M

b) Explain physical organization of CD-ROM. 8 M

3. a) Discuss an object oriented model for implementing co sequential process. 8 M

b) Explain managing fixed length and fixed field buffers? 8 M

4. What is B-Tree? Explain multi level indexing. 16 M

5. a) Explain adding a simple index to the sequential set. 8 M

b) Discuss the simple prefix B+ Tree. 8 M

6. a) What is hashing? Explain hashing functions and hashing algorithm. 8 M

b) Explain collision resolution by progressive overflow. 8 M