

Code: CS4T3

II B.Tech - II Semester – Regular Examinations - May 2016

**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) Define Physical file.
- b) Define Files with C++ streams.
- c) Relate sector and cylinder in disk drives.
- d) Define seek time.
- e) What is a record?
- f) Define a key and types of keys.
- g) Write one Property of B+ tree.
- h) Write the steps of Indexed Sequential Files : Update
- i) What is hashing?
- j) Discuss a simple hashing scheme.
- k) Write an example of scatter table structure.

PART – B

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

3 x 16 = 48 M

2)

- a) What is seeking? Explain the seeking with C streams. 8 M

- b) Explain the description of tape systems. 8 M
- 3)
- a) How do we organize records in a file? Discuss. 8 M
- b) Explain a model for implementing Co-sequential processes for matching names in two lists. 8 M
- 4)
- a) Write the properties of B tree of order m. 8 M
- b) Discuss the strategy of insertion into a B-tree. 8 M
- 5)
- a) Write with example the changes involving multiple blocks in the sequence set for simple B+ tree maintenance. 8 M
- b) Discuss with Example Indexed Sequential Files Deletion. 8 M
- 6)
- a) Define and explain collisions in hashing. Write a short note on collision resolution by progressive overflow. 8 M
- b) Discuss various collision resolution techniques that improve performance. 8 M