

Code: CS4T4

II B.Tech - II Semester – Regular Examinations - JUNE 2015

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

Duration: 3 hours

Marks: 5x14=70

Answer any FIVE questions. All questions carry equal marks

1 Write a short notes on

- | | |
|------------------------------|-----|
| a) Physical files. | 4 M |
| b) Logical files. | 4 M |
| c) Opening and Closing files | 6 M |

2 a) Write the difference between Magnetic tape Vs Magnetic disk. 7 M

b) Explain about kernel I/O structure. 7 M

3 a) Briefly discuss about field & record organization. 7 M

b) Write about fixed length buffers. 7 M

4 Write a short notes on

- | | |
|----------------------------|-----|
| a) Sorting of large files. | 7 M |
| b) Multiway Merging | 7 M |

- 5 a) What is an index? Explain a simple index for entry sequential files. 6 M
- b) Explain about B tree methods. 8 M
- 6 a) Write about B+trees & simple prefix B+trees in perspective. 8 M
- b) Explain about loading a simple prefix B+trees with an example. 6 M
- 7 a) Write about simple hashing algorithm. 8 M
- b) How do we resolve collision by progressive overflow. 6 M
- 8 Write about extendible hashing implementation and performance. 14 M