# CBCS Scheme

## Fourth Semester M.Tech. Degree Examination, June/July 2018
## File Systems Forensic Analysis

Time: 3 hrs.                                                      Max. Marks: 80

**Note:** *Answer FIVE full questions, choosing one full question from each module.*

### Module-1

1   a. Explain Analysis technique of File name category.                    **(08 Marks)**
    b. Explain essential and non essential Boot function data of FAT file system.   **(08 Marks)**

### OR

2   a. What is GPT partition? Explain 5 major areas of GPT partitions with neat diagram.
                                                                              **(08 Marks)**
    b. Explain different level of RAID with neat diagram.                     **(08 Marks)**

### Module-2

3   a. What is need of extended partition in DOS? Explain in brief.           **(08 Marks)**
    b. Explain any 1 method of disk spanning in Linux.                        **(08 Marks)**

### OR

4   a. Explain analysis techniques of content category (Any 3).              **(08 Marks)**
    b. Explain file name searching and directory entry ordering in FAT file system.  **(08 Marks)**

### Module-3

5   a. Explain steps involved in file allocation and deletion of FAT file system.   **(08 Marks)**
    b. Explain standard NTFS file system meta data files.                     **(08 Marks)**

### OR

6   a. Explain the overview of MFT? Explain MFT entry contents and MFT entry addresses.
                                                                              **(08 Marks)**
    b. Explain How B-Trees are used to sort the indexes in NTFS.              **(08 Marks)**

### Module-4

7   a. List all meta data in NTFS file system. explain any 3.                 **(08 Marks)**
    b. Explain links and mount points in EXTX file system.                    **(08 Marks)**

### OR

8   a. Explain superblock and block group descriptor in file system category of EXTX.   **(08 Marks)**
    b. Explain EXT3 file system Journaling with neat diagram.                  **(08 Marks)**

### Module-5

9   a. Explain overview of file name category.                                **(08 Marks)**
    b. Explain i-nodes and extended attributes of UFS.                        **(08 Marks)**

### OR

10  a. Explain file deletion steps in EXTX file system with neat diagram.     **(08 Marks)**
    b. Explain the relationship between UFS directory, i – nodes and data block. Explain
       superblock.                                                            **(08 Marks)**

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