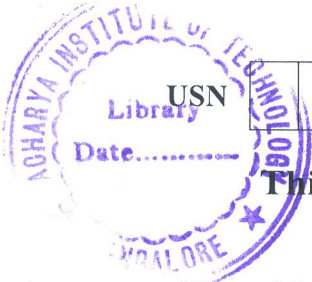


CBCS SCHEME



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18SFC31

Third Semester M.Tech. Degree Examination, Dec.2019/Jan.2020

File System Forensic Analysis

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What is the need of extended partition in DOS? Explain in brief. (10 Marks)
- b. Explain the method of partition 12GB HDD to 2GB partition in DOS with neat diagram. (10 Marks)

OR

- 2 a. Explain about free BSD and open BSD disk partition. (10 Marks)
- b. Explain Hardware RAID and software RAID, with neat diagram. (10 Marks)

Module-2

- 3 a. What is file system? Explain 5 data categories, with neat diagram. (10 Marks)
- b. Explain analysis techniques of file name category. (10 Marks)

OR

- 4 a. Explain any 1 method of disk spanning in Linux. (10 Marks)
- b. Explain essential and non essential boot function data of FAT file system. (10 Marks)

Module-3

- 5 a. Explain file name searching and directory entry ordering in FAT file system. (10 Marks)
- b. Explain steps involved in file allocation and deletion of FAT file system. (10 Marks)

OR

- 6 a. Explain the overview of MFT? Explain MFT entry contents and MFT entry address. (10 Marks)
- b. Explain how B-Trees are used to sort the indexes in NTFS. (10 Marks)

Module-4

- 7 a. Brief the attribute of basic file in meta data of NTFS, with neat diagram. (10 Marks)
- b. Explain the steps involved in file allocation of NTFS, with neat diagram. (10 Marks)

OR

- 8 a. Explain standard NTFS file system meta data files. (10 Marks)
- b. Explain superblock and block group description in file system category of ExTx. (10 Marks)

Module-5

- 9 a. Explain links and mount points in ExTx file system. (10 Marks)
- b. Explain file recovery and consistency checks in ExTx. (10 Marks)

OR

- 10 a. Explain ExT3 file system journaling, with neat diagram. (10 Marks)
- b. Explain i-nodes and extended attributes of UFS. (10 Marks)

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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.