(10 Marks)

Third Samastan MCA Dag

ii) out-off-band data.

Third Semester MCA Degree Examination, June/July 2019 UNIX System Programming

Max. Marks:100 Time: 3 hrs. Note: Answer any FIVE full questions. What are the major differences between ANSI 'C' and K and R 'C'? Explain. (10 Marks) Explain the common characteristics of API and describe the ERROR status codes. (10 Marks) Explain the different file types available in UNIX or POSIX systems. (08 Marks) b. Describe the UNIX kernel support for files with neat diagram. (08 Marks) Write any four differences between hard link and symbolic link. (04 Marks) Explain the following API's with their prototypes and argument values. i) open ii) read iii) fentl iv) lseek v) access. (10 Marks) (10 Marks) b. Explain file and record locking with fcntl API. Explain getrlimit and setrlimit functions with prototype mention the three rules to change the resource limits. (10 Marks) b. Describe the UNIX kernel support for process with neat diagram. (10 Marks) Explain the following with prototypes. i) wait ii) waitpid iii) wait3 iv) wait4. (10 Marks) b. Write short notes on: i) interpreter files ii) process accounting. (10 Marks) What is a signal? How signals are delivered to a process and explain kill and alarm (10 Marks) b. What are daemon processes? Explain the characteristics along with coding rule. (10 Marks) What are pipes? Explain popen and pelose functions with their prototypes and examples. (10 Marks) What is FIFO? Discuss with an example, the Client Server Communication using FIFO. (10 Marks) What is a socket? How to create and destroy a socket? Explain with example. (10 Marks) Write short notes on: i) data transfers

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