

Code No: MC1633 /R16

MCA III Semester Supplementary Examinations, Feb/Mar-2022

UNIX PROGRAMMING

Time: 3 Hours

Max. Marks: 60

*Answer Any FIVE Questions
All Questions Carry Equal Marks*

1. a Explain the following unix commands. 6M
i)cat ii) ls iii) mkdir
b Explain about input and output redirection in unix. 6M
2. a Explain how the file permissions can be changed in unix. 6M
b Write a shell script to find the factorial of a number. 6M
3. a Explain the following system calls. 6M
i) read()
ii) lseek()
iii) fstat()
b Briefly explain about streams and file descriptors. 6M
4. a Explain alarm() signal. 6M
b Explain about orphan process and zombie process. 6M
5. a Explain inter process communication in unix using message passing technique. 6M
b Discuss the access permission modes in Inter Process Communication. 6M
6. a Explain the following system V semaphore calls. 6M
i)semget()
ii) semctl()
iii) semop()
b List and explain Berkeley sockets. 6M
7. a Explain the following commands. 6M
i)chmod ii) unlink iii) rmdir
b Differentiate between threads and processes. 6M
8. a Explain about socket system calls for connection less protocol. 6M
b Discus IPC between processes on a single computer system. 6M
