

Code No: **R32054**

R10

Set No. 1

III B.Tech II Semester Supplementary Examinations, November- 2017
UNIX PROGRAMMING
(Common to Computer Science and Engineering and Information Technology)

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

- 1 a) With the help of syntax and example explain the various process utility commands. [8M]
- b) Discuss the navigation commands supported by vi editor. Give examples for each. [7M]
- 2 a) Write a shell script that accepts a name from the user and displays whether it is a file, directory or something else. [8M]
- b) Write about shell variables and environment variables. [7M]
- 3 a) What is a file? What are its characteristics? Explain them in detail. [7M]
- b) Explain with example the file and directory maintenance system calls in detail. [8M]
- 4 a) Describe the role of process identifiers in process control. [8M]
- b) Write a C program to create zombie process. [7M]
- 5 a) What is the role of the following in signal generation:
i) pause and ii) alarm system calls. [8M]
- b) What is Race Condition? Explain in detail. Give its use in signals. [7M]
- 6 a) What is a Pipe? Write a program to create a pipe between a parent and its child and send the data between them through pipe. [8M]
- b) What is re entrant function? Explain in detail with an example. [7M]
- 7 a) How file loading is implemented using semaphore. [8M]
- b) What is a semaphore? Explain the operations that are supported by it. [7M]
- 8 a) How addresses are associated with Sockets? Explain in detail. [8M]
- b) Describe the role of port numbers with respect to sockets. [7M]

www.ManaResults.co.in

