R09

Code No: F3303

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA III Semester Examinations, June/July - 2018
LINUX PROGRAMMING

Time: 3hrs   **Max.Marks:60**

Answer any five questions
All questions carry equal marks
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1.a)   Write a shell script that determines the period for which a specified user is working on the system?
 b)   Explain reliable and unreliable signals.   [6+6]

2.a)   Write about directory management system calls.
 b)   Differentiate pipes and named pipes.   [6+6]

3.a)   Write about orphan process.
 b)   Write a C program to create a zombie process.   [6+6]

4.   Write a C program to create a message queue with read and write permissions to write 3 messages to it with different priority numbers.   [12]

5.a)   What are semaphores? Explain with an example.
 b)   Write a note on POSIX thread APIs.   [6+6]

6.a)   Write about shell meta characters.
 b)   Differentiate soft links and hard links.   [6+6]

7.   What is socket? Explain socket system calls for connection oriented protocol.   [12]

8.   Write short notes on the following:
      a) Socket addresses
      b) Stream errors
      c) FIFO's.   [12]

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