

**R16**

**Code No: 138GH**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**B. Tech IV Year II Semester Examinations, July - 2021**

**LINUX PROGRAMMING**

**(Electrical and Electronics Engineering)**

**Time: 3 Hours**

**Max.Marks:75**

**Answer any Five Questions  
All Questions Carry Equal Marks**

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1. Discuss the appropriate commands associated with file handling in Linux. [15]
2. Explain in detail about control structures in BASH. [15]
3. Explain with example code various system calls for handling file I/O operations. [15]
4. What are stat(), fstat() and lstat() functions used for? Explain. [15]
5. Explain the following system calls: kill(), raise(), alarm(), exit(). [15]
6. Write a program to illustrate the fork() and wait() system calls. [15]
7. Write a detailed note on file locking with semaphores using Lucid example code. [15]
8. Explain with an example the client/server programs using Single Server-Client connection oriented protocol. [15]

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