TEST DKT 221 (OPERATING SYSTEM PRINCIPLE)

Time: 2 hours

| | Name: FRMAD FUL FLLPNYOPPIN | |
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| | Matrix No. : 182021255 | |
| 1) | Describe the two general roles of an operating system. | [4 Marks] |
| 2) | Elaborate why these roles are important. | 4 Marks] |
| 3) | Explain THREE differences between CLI and GUI | 4 Marks] |
| 4) | Describe Five advantages of Open Source Operating System con Microsoft windows. | npare to |
| 5) | List FIVE Command line in Linux and explain the purpose of each comm | and line. [5 Marks] |
| 6) | Explain SEVEN Services provided by Operating System to User a example for each service. | and give [7 Marks] |
| 7) | Describe the three state process model, describe what transitions between the three states, and describe an event that might cause | are valid such a |
| | transition. | [5 Marks] |
| 8) | What is a process? What are attributes of a process? | [4 Marks] |

| 9) | Briefly | y explain:- | |
|-----|---------------|---|--------------------------|
| | i) | Process instruction sent to register to be executed by CPL | J |
| | ii) arranç | Process Schedule. – schedule of process executed by CPI ge using scheduling | U, will be |
| | iii) | Multiprogramming. – multiple program run at one time | |
| | iv) | Multithreading. – a process that have more than one threads | at one time [8 Marks] |
| 10) | Draw I | Process Control Block Diagram and explain the information in the | ne PCB [4 Marks] ् |
| 11) | Draw a | a block diagram of process state and explain each state of the p | orocess. [4 Marks] |
| 12) | Give T\ | WO (2) different of user mode and kernel mode in operating syst | tem. [2 Marks] |