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| **Theory Notes Task: Purpose of Operating Systems** |

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| 1. Highlight the purpose and roles of an operating system  Controls how a computer operates |

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| 2. Give examples of three different operating systems  Windows  Linux  MacOS |

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| 3. Name the four parts of an operating system  Kernel  System Utilities  Device Drivers  User Interface |

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| 4. List four tasks performed by the kernel  Loads and unloads tasks to and from main memory  Manages files  Schedules tasks to work efficiently on the CPU  Security |

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| 5a. Outline the role performed by device drivers  They allow the operating system to interact with hardware |

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| 5b. Where can you find exact details of which device driver is needed by the operating system?  In the registry (Windows) In the configuration files (Linux) |

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| 6a. What is the purpose of a user interface?  To provide the user with a way to interact with the computer |

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| 6b. Name two different types of user interface and explain how they differ  GUI – Very user friendly and easy to use, the user clicks on ui elements to interact with the computer  CLI – You have to input instructions for the computer to understand, for more advanced users of the computer |

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| 6a. What is the purpose of a system utility? Provide examples.  System utility are the basic facilities needed in a computer such as print spool services and defragmentation |