



CSE316_Quiz06
10 Questions

NAME : _____

CLASS : _____

DATE : _____

1. Which transition is not valid as per operating systems transition diagram?

- | | |
|---|---|
| <input type="checkbox"/> A Running to Blocked | <input type="checkbox"/> B Running to Ready |
| <input type="checkbox"/> C Ready to Running | <input type="checkbox"/> D Blocked to Exit |

2. A Computer handles several interrupt sources of which the following are relevant for this question:

- Interrupt from CPU temperature sensor (raises interrupt if CPU temperature is too high)
- Interrupt from Mouse (raises interrupt if the mouse is moved or a button is pressed)
- Interrupt from keyboard (raises interrupt when a key is pressed or release)
- Interrupt from Hard Disk (raises interrupt when a disk read is completed)

Which one of these will be handled at the HIGHEST priority?

- | | |
|--|--|
| <input type="checkbox"/> A Interrupt from Mouse | <input type="checkbox"/> B Interrupt from CPU temperature sensor |
| <input type="checkbox"/> C Interrupt from keyboard | <input type="checkbox"/> D Interrupt from Hard Disk |

3. Which is not the property of Monolithic kernel?

- | | |
|---|---|
| <input type="checkbox"/> A It allows user programs to run in different address spaces | <input type="checkbox"/> B It is one large process running entirely in a single address space |
| <input type="checkbox"/> C It is a single static binary file | <input type="checkbox"/> D All services run in kernel mode |

4. Let the time taken to switch between user and kernel modes of execution be t_1 while the time taken to switch between two processes be t_2 .

Which of the following is TRUE?

- | | |
|---|--|
| <input type="checkbox"/> A $t_1 = t_2$ | <input type="checkbox"/> B $t_1 < t_2$ |
| <input type="checkbox"/> C Nothing can be said about the relation between t_1 and t_2 | <input type="checkbox"/> D $t_1 > t_2$ |

5. Which information is not available in process control block?

- | | |
|---|--|
| <input type="checkbox"/> A Process priority | <input type="checkbox"/> B Process color |
| <input type="checkbox"/> C Process state | <input type="checkbox"/> D Process ID |

6. What is context switching?

- | | |
|---|--|
| <input type="checkbox"/> A The process of switching from one browser tab to another | <input type="checkbox"/> B The process of switching from one application to another on a mobile device |
| <input type="checkbox"/> C The process of saving and restoring the state of a process or thread | <input type="checkbox"/> D The process of switching from one user account to another on a computer |

7. If a process is in running or active state in which state the process can transit?

- | | |
|---|--|
| <input type="checkbox"/> A Blocked State | <input type="checkbox"/> B Ready State |
| <input type="checkbox"/> C Terminated State | <input type="checkbox"/> D New State |

8. In which queue there can be more than one processes at any point in time in operating systems? [MSQ]

- | | |
|--|--|
| <input type="checkbox"/> A Waiting Queue | <input type="checkbox"/> B New Queue |
| <input type="checkbox"/> C Ready Queue | <input type="checkbox"/> D Execution Queue |

9. What is a scheduler in operating systems?

- | | |
|---|--|
| <input type="checkbox"/> A A utility for managing memory allocation | <input type="checkbox"/> B A component for handling user input |
| <input type="checkbox"/> C A tool for managing file systems | <input type="checkbox"/> D A system component that handles the execution of jobs |

10. What is a dispatcher in operating systems?

- | | |
|---|--|
| <input type="checkbox"/> A A system for managing memory allocation | <input type="checkbox"/> B A tool for managing file systems |
| <input type="checkbox"/> C A component that manages user interfaces | <input type="checkbox"/> D A component that handles the execution of processes |

Answer Key

- | | | | |
|------|-------|------------|------------|
| 1. d | 2. b | 3. a | 4. b |
| 5. b | 6. c | 7. a, b, c | 8. c, b, a |
| 9. d | 10. d | | |