

QUIZZZCSE316_Quiz06
10 Questions

NAME : _____

CLASS : _____

DATE : _____

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

☐ A Running to Blocked☐ B Running to Ready☐ C Ready to Running☒ 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?

☐ A Interrupt from Mouse☒ B Interrupt from CPU temperature sensor☐ C Interrupt from keyboard☐ D Interrupt from Hard Disk

3. Which is not the property of Monolithic kernel?

☒ A It allows user programs to run in different address spaces☐ B It is one large process running entirely in a single address space☐ C It is a single static binary file☐ 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?

☐ A $t_1 = t_2$ ☒ B $t_1 < t_2$ ☐ C Nothing can be said about the relation between t_1 and t_2 ☐ D $t_1 > t_2$

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

☐ A Process priority☒ B Process color☐ C Process state☐ D Process ID

6. What is context switching?

- ☐ A The process of switching from one browser tab to another
- ☐ B The process of switching from one application to another on a mobile device
- ☒ C The process of saving and restoring the state of a process or thread
- ☐ 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?

- ☒ A Blocked State
- ☒ B Ready State
- ☒ C Terminated State
- ☐ D New State

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

- ☒ A Waiting Queue
- ☒ B New Queue
- ☒ C Ready Queue
- ☐ D Execution Queue

9. What is a scheduler in operating systems?

- ☐ A A utility for managing memory allocation
- ☐ B A component for handling user input
- ☐ C A tool for managing file systems
- ☒ D A system component that handles the execution of jobs

10. What is a dispatcher in operating systems?

- ☐ A A system for managing memory allocation
- ☐ B A tool for managing file systems
- ☐ C A component that manages user interfaces
- ☒ 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 | | |