

BÀI TẬP QUÁ TRÌNH

Set-1: Basic OS question

Câu 1 What is operating system?

- A. collection of programs that manages hardware resources
- B. system service provider to the application programs
- C. link to interface the hardware and application programs
- D. all of the mentioned

ans: all of the mentioned

Câu 2 To access the services of operating system, the interface is provided by the

- A. system calls
- B. API
- C. library
- D. assembly instructions

ans: D. assembly instructions

Câu 3 Which one of the following error will be handle by the operating system?

- A. power failure
- B. lack of paper in printer
- C. connection failure in the network
- D. all of the mentioned

Câu 4 The main function of the command interpreter is

- A. to get and execute the next user-specified command
- B. to provide the interface between the API and application program
- C. to handle the files in operating system
- D. none of the mentioned

Câu 5 By operating system, the resource management can be done via

- A. time division multiplexing
- B. space division multiplexing
- C. both (a) and (b)
- D. none of the mentioned

câu 6 If a process fails, most operating system write the error information to a

- A. log file
- B. another running process
- C. new file

D. none of the mentioned

ans: A. log file

Câu 7: The systems which allows only one process execution at a time, are called

- A. uniprogramming systems
- B. uniprocessing systems
- C. unitasking systems
- D. none of the mentioned

Câu 8 In operating system, each process has its own

- A. address space and global variables
- B. open files
- C. pending alarms, signals and signal handlers
- D. all of the mentioned

Câu 9 A process can be terminated due to

- A. normal exit
- B. fatal error
- C. killed by another process
- D. all of the mentioned

Câu 10 What is the ready state of a process?

- A. when process is scheduled to run after some execution
- B. when process is unable to run until some task has been completed
- C. when process is using the CPU
- D. none of the mentioned

ans: A. when process is scheduled to run after some execution

Set-2

Câu 1 What is interprocess communication?

- A. communication within the process
- B. communication between two process
- C. communication between two threads of same process
- D. none of the mentioned

ans: B. communication between two process

Câu 2 A process stack does not contain

- A. function parameters
- B. local variables
- C. return addresses
- D. PID of child process

Ans: D. PID of child process

Câu 3: When the process issues an I/O request :

- A. It is placed in an I/O queue
- B. It is placed in a waiting queue
- C. It is placed in the ready queue
- D. It is placed in the Job queue

Câu 4 What is a long-term scheduler ?

- A. It selects which process has to be brought into the ready queue
- B. It selects which process has to be executed next and allocates CPU
- C. It selects which process to remove from memory by swapping
- D. None of these

Câu 5 What is a medium-term scheduler ?

- A. It selects which process has to be brought into the ready queue
- B. It selects which process has to be executed next and allocates CPU
- C. It selects which process to remove from memory by swapping
- D. None of these

Ans: C. It selects which process to remove from memory by swapping

Câu 6 What is a short-term scheduler ?

- A. It selects which process has to be brought into the ready queue
- B. It selects which process has to be executed next and allocates CPU
- C. It selects which process to remove from memory by swapping
- D. None of these

Ans: B. It selects which process has to be executed next and allocates CPU

Câu 7 The primary distinction between the short term scheduler and the long term scheduler is :

- A. The length of their queues
- B. The type of processes they schedule
- C. The frequency of their execution
- D. None of these

Set-3

Câu 1 In a time-sharing operating system, when the time slot given to a process is completed, the process goes from the running state to the :

- A. Blocked state
- B. Ready state
- C. Suspended state
- D. Terminated state

Ans: B. Ready state

Câu 2 In a multi-programming environment :

- A. the processor executes more than one process at a time
- B. the programs are developed by more than one person
- C. more than one process resides in the memory
- D. a single user can execute many programs at the same time

Ans: C. more than one process resides in the memory

Câu 3: Suppose that a process is in “Blocked” state waiting for some I/O service. When the service is completed, it goes to the :

- A. Running state
- B. Ready state
- C. Suspended state
- D. Terminated state

Câu 4 Which of the following does not interrupt a running process ?

- A. A device
- B. Timer
- C. Scheduler process
- D. Power failure

Câu 5 Several processes access and manipulate the same data concurrently and the outcome of the execution depends on the particular order in which the access takes place, is called a(n) ____.

- A. Shared Memory Segments
- B. Entry Section
- C. Race condition
- D. Process Synchronization

Ans: C. Race condition

Câu 6 Which of the following state transitions is not possible ?

- A. blocked to running
- B. ready to running
- C. blocked to ready
- D. running to blocked

Câu 7 Which process can affect or be affected by other processes executing in the system?

- A. cooperating process
- B. child process
- C. parent process
- D. init process

Câu 8 A semaphore is a shared integer variable

- A. that can not drop below zero
- B. that can not be more than zero
- C. that can not drop below one
- D. that can not be more than one

Ans: A. that can not drop below zero

Set-5

Câu 1 Operating System maintains the page table for

- A. each process
- B. each thread
- C. each instruction
- D. each address

ans: A. each process

Câu 2 Because of virtual memory, the memory can be shared among

- A. processes
- B. threads
- C. instructions
- D. none of the mentioned

A. processes

Câu 3 _____ is the concept in which a process is copied into main memory from the secondary memory according to the requirement.