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NPTEL

Courses » Information Security-3   Announcements   **Course**   Forum   Progress   Mentor

Unit 11 - ASSESSMENTS ✎

Course outline

How to access the portal

Prerequisite: Information Security - II

WEEK1: OS Fundamentals

WEEK2: OS Fundamentals

WEEK2: Intro to Linux

WEEK3: Intro to Linux

WEEK4: Intro to Linux

WEEK4: Unix Shell Introduction

WEEK5: Unix Shell Introduction

WEEK6: Unix Shell Introduction

ASSESSMENTS

● Quiz : Assessment - 1

○ Quiz : Assessment - 2

Assessment - 1 ✎

The due date for submitting this assignment has passed.   **Due on 2017-02-12, 23:55 IST.**

Submitted assignment (Submitted on 2017-01-29, 15:41)

This Assessment can only be submitted once.

1) Which of the following statements about Softwares is false?   *1 point*

- ◉ System Softwares can control and coordinate the use of hardware.
- ○ DBMS, Compilers, Assemblers are examples of System Software.
- ○ System Softwares provide an API that can be accessed by the Application Softwares.
- ○ OS Interface is used by the System Softwares to interact with the hardware/OS.

2) Which of the following is true about the Bootstrap program?   *1 point*

- ○ It is stored on the ROM
- ○ It loads the OS Kernel and triggers its execution
- ○ It initializes the hardware system
- ◉ All of the options are correct.

3) Fill in the blanks with the most accurate answer: *1 point*

I) Keyboard generates a _____ everytime a key is pressed.

II) Software programs generate a _____ when they want to access data from an external hard disk.

- ○ Exception, Interrupt
- ◉ Interrupt, Trap
- ○ Interrupt, Exception
- ○ Trap, Interrupt

4) Which of the following is true about i/o ?   *1 point*

I) Synchronous i/o is advantageous because it results in faster execution of the user program.

II) Asynchronous i/o is disadvantageous because it requires more hardware/software changes such as System calls and Device status enable bits.

○ True, True
○ True, False
○ False, False
◉ False, True

5) State True or False. Privilege escalation attacks allow the attacker to change to a ID **1 point** (Group or User ID) with more access rights.

◉ True
○ False

6) State True or False.   **1 point**

I) OS manages Process, Memory, Files as well as Secondary storage.
II) A system without a cache can be built, but it will be slower.

○ True, False
○ False, False
○ False, True
◉ True, True

7) Fill in the blanks   **2 points**

I) Supervisor mode is another name for User mode. True or False? _____.
II) _____ exception is used to switch from user mode to kernel mode.

○ True, Interrupt
○ False, interrupt
◉ False, Trap
○ True, Trap

8) State true or false.   **1 point**

I) In a Micro-Kernel based OS, different modules communicate with each other using message passing. This is a secure way to enable communication.
II) In a Modular OS, kernel modules can directly call any other module. This, however, suffers from efficiency issues.

○ True, True
○ False, True
○ False, False
◉ True, False

9) Creating many threads is advisable than creating many processes. Which of the   **1 point** statements below do not support this claim?

○ Threads can share the address space and global data.
◉ Programmer should ensure that it is ok to share data between two threads.
○ Context switching is faster for threads as compared to Processes
○ None of the options.

10) Fill in the blanks.   **1 point**

Creating threads takes some time, and the process will have to wait before assigning a job to the thread. A possible solution for improving performance is using _____

○ Kernel Threads

○ User Threads

◉ Thread Pools

○ Processes

11) Fill in the blanks: *1 point*

I) The reason why CPU is idle is because of _____.
II) Short term scheduler selects the process to be _____ the ready queue.

○ there are no process to execute, brought into

◉ alternating i/o activity, picked from

○ alternating i/o activity, brought into

○ None of the options.

12) Match the following: *1 point*

1. Pick the job that arrived first   -   A. FCFS
2. Pick the job that is smallest   -   B. SJF
3. Pick the job that can complete first   -   C. SRTF

○ 1A,2C,3B

○ 1C, 2A, 3B

◉ 1A, 2B, 3C

○ 1B, 2A, 3C

13) State True or False. Non-Preemptive scheduling algorithm will pull out the currently *1 point*
executing process in order to schedule another process.

○ True

◉ False

14) SJF Scheduler suffers from which of the following issues?   *1 point*

○ None of the options

◉ Bigger processes are starved

○ Process arrival dictates waiting time.

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