

Started on Thursday, 27 March 2025, 3:44 PM**State** Finished**Completed on** Thursday, 27 March 2025, 3:58 PM**Time taken** 14 mins 35 secs**Marks** 16.00/20.00**Grade** 80.00 out of 100.00**Question 1**

Correct

Mark 1.00 out of 1.00

Identify the error in "UPDATE Employees SET Salary = Salary * 1.05 WHERE;"

- ☐ a. SET keyword
- ☐ b. UPDATE keyword
- ☐ c. No error
- ☒ d. WHERE clause ✓

Question 2

Incorrect

Mark 0.00 out of 1.00

identify the error in "ALTER TABLE Students DROP COLUMN DateOfBirth date;"

- ☐ a. DateOfBirth
- ☒ b. DROP COLUMN ✗
- ☐ c. ALTER TABLE
- ☒ d. date ✓

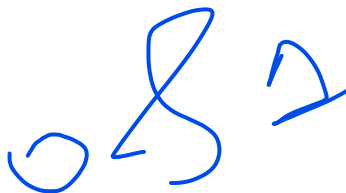
Question 3

Correct

Mark 1.00 out of 1.00

The kernel of an operating system is:

- ☐ a. A type of virus
- ☐ b. The user interface
- ☐ c. An application software
- ☒ d. The part that manages hardware interactions ✓



Question 4

Correct

Mark 1.00 out of 1.00

A user complains that they cannot access the internet on their computer. What should be checked first?

- ☒ a. The network cable connection ✓
- ☐ b. The web browser's homepage setting
- ☐ c. The computer's power status
- ☐ d. The installed operating system

Question 5

Incorrect

Mark 0.00 out of 1.00

Context switching is:

- ☒ a. None of the above ✗
- ☐ b. A method of disk scheduling
- ☐ c. The act of switching between different applications by the user
- ☐ d. The process of saving and restoring the state of a CPU so that multiple processes can share a single CPU resource

Question 6

Incorrect

Mark 0.00 out of 1.00

Which command in Unix is used to display the current directory's contents?

- ☒ a. ls
- ☐ b. cd
- ☒ c. touch ✗
- ☐ d. mkdir

Question 7

Correct

Mark 1.00 out of 1.00

In a multiprocessing system, processes:

- ☐ a. Are executed one at a time
- ☐ b. Can share resources efficiently
- ☒ c. Are executed in parallel ✓
- ☐ d. Must communicate using inter-process communication (IPC)

Question 8

Correct

Mark 1.00 out of 1.00

Which of the following is true about threads within the same process?

- ☐ a. They have separate CPUs
- ☒ b. They share the same memory space ✓
- ☐ c. They share the same CPU but have different memory
- ☐ d. None of the above

Question 9

Correct

Mark 1.00 out of 1.00

In an operating system, what is the role of a scheduler?

- ☐ a. To manage user accounts
- ☐ b. To configure network settings
- ☒ c. To determine which process runs at a certain point in time ✓
- ☐ d. To allocate disk space

Question 10

Correct

Mark 1.00 out of 1.00

A computer is running very slowly. The most likely cause is:

- ☒ a. Insufficient RAM ✓
- ☐ b. A disconnected printer
- ☐ c. Outdated graphics drivers
- ☐ d. Too many browser tabs open

Question 11

Correct

Mark 1.00 out of 1.00

Multitasking in operating systems allows for:

- ☐ a. None of the above
- ☒ b. A single user to perform multiple tasks at one time ✓
- ☐ c. Devices to run without an OS
- ☐ d. Multiple users to share a single device

Question 12

Correct

Mark 1.00 out of 1.00

The primary difference between a process and a thread is:

- ☐ a. Threads do not share resources
- ☐ b. All of the above
- ☐ c. A process is less resource-intensive
- ☒ d. A thread is a part of a process ✓

Question 13

Correct

Mark 1.00 out of 1.00

What does the DROP command do in SQL?

- ☐ a. Modifies a table
- ☐ b. Creates a new table
- ☒ c. Deletes an existing table ✓
- ☐ d. Adds a new row to a table

Question 14

Correct

Mark 1.00 out of 1.00

In "UPDATE Employees SET Age = Age + 1 WHERE Department IN ('Sales', 'HR') AND Age >= 30;" identify the error.

- ☐ a. The SET keyword
- ☒ b. No error ✓
- ☐ c. The AND operator
- ☐ d. The IN operator

Question 15

Correct

Mark 1.00 out of 1.00

Which of the following is not a type of operating system?

- ☐ a. Distributed Operating System
- ☐ b. Batch Operating System
- ☒ c. Sequential Operating System ✓
- ☐ d. Real-time Operating System

Question 16

Incorrect

Mark 0.00 out of 1.00

Which of the following scenarios best demonstrates a deadlock?

- ☒ a. All of the above ✖
- ☐ b. A process waiting for a resource that's never released
- ☐ c. A thread that is executing a non-terminating loop
- ☐ d. Two or more processes are waiting indefinitely for an event that can only be caused by one of the waiting processes

Question 17

Correct

Mark 1.00 out of 1.00

Which component of an operating system is responsible for managing files?

- ☐ a. Memory Manager
- ☒ b. File System Manager ✔
- ☐ c. Device Driver
- ☐ d. Process Manager

Question 18

Correct

Mark 1.00 out of 1.00

What is the difference between the DROP and TRUNCATE commands in SQL?

- ☐ a. Both commands modify table data
- ☒ b. DROP deletes the table, TRUNCATE deletes only the table data ✔
- ☐ c. TRUNCATE deletes the table, DROP deletes only the table data
- ☐ d. No difference

Question 19

Correct

Mark 1.00 out of 1.00

An operating system's primary function includes which of the following?

- ☐ a. Managing hardware resources
- ☐ b. Running applications
- ☒ c. All of the above ✔
- ☐ d. Providing user interface

Question 20

Correct

Mark 1.00 out of 1.00

A process is:

- ☒ a. An instance of a program in execution ✓
- ☐ b. The same as a thread
- ☐ c. A set of instructions stored on disk
- ☐ d. A type of computer virus