


Question 1

0.05 out of 0.05 points

Which scheduling algorithm is based on priority and can result in starvation of low-priority processes?


Selected Answer:  c. Priority scheduling


- Answers:
- a. Shortest job first scheduling
 - b. First-come, first-served scheduling
 -  c. Priority scheduling
 - d. Round-robin scheduling

Question 2

0 out of 0.05 points

What is the l-node number of /usr ?

Selected Answer:  d. 2

- Answers:
-  a. 6
 - b. 5
 - c. 12
 - d. 2

Question 3

0.05 out of 0.05 points

Which technique allows code to be executed two or more times simultaneously?

Selected Answer:  a. Reentrancy

Answers:  a. Reentrancy

b. Abstraction

c. Reusability

d. Brute Force


Question 4

0.05 out of 0.05 points

What are the two execution paradigms?

Selected Answer  b. Algorithmic and event driven.

Answers:

- a. Event driven and running.
-  b. Algorithmic and event driven.
- c. Algorithmic and processing.
- d. Wait and running execution paradigms.
- e. Identification and sensing

Question 5

0.05 out of 0.05 points

Which of the following binding is more complicated but more flexible

Selected Answer: ☒ c. late binding

- Answers:
- a. forward binding
 - b. early binding
 - ☒ c. late binding
 - d. prompt binding

Question 6

0.05 out of 0.05 points

What is orthogonality in system design?

Selected Answer: ☒ a. **The ability to combine separate concepts independently**

- Answers:
- ☒ a. **The ability to combine separate concepts independently**
 - b. The separation of processes
 - c. The ability to make a new thread in Linux

- d. The ability to separate out various features

Question 7

0.05 out of 0.05 points

What is the primary challenge of maintaining cache coherence in a multiprocessor system?

Selected
Answer:
:

- ☒ a. Ensuring all caches have the same data for a given memory address

Answers:

- ☒ a. Ensuring all caches have the same data for a given memory address

b. Managing the size of the cache

c. Reducing power consumption

d. Balancing the load between processors


Question 8

0 out of 0.05 points

Which data paradigm was used in early FORTRAN batch systems?

Selected Answer:  a. Punch cards

Answers: a. Punch cards

 b. Sequential magnetic tape


c. Random access memory

d. Optical disks

Question 9


0.05 out of 0.05 points

What is the main objective of a brute force attack in operating systems?

Selected Answer:  c. To exhaust all possible passwords or encryption keys to gain access to the system

Answers: a. To bypass firewalls and gain access to the system

b. To create a backdoor in the system for future access.

 c. To exhaust all possible passwords or encryption keys to gain access to the system

d. To gather sensitive information stored in the system

Question 10

0.05 out of 0.05 points

What is the correct order of path through the cache to the hardware?

Selected

Answer:

☒ d. User ->Cache manager -> I/O manager

Answers:

a. Cache manager -> I/O manager -> user

b. I/O manager -> cache manager -> user

c. I/O manager -> user -> cache manager


☒ d. User ->Cache manager -> I/O manager

Question 11

0 out of 0.05 points

What is the most important aspect of a GUI-level interface and a system-call interface?


Selected
Answer:

 b. Allowing users to interact more directly and more intuitively with the device

Answers:

a. Providing libraries and tool kits to application developers

b. Allowing users to interact more directly and more intuitively with the device

 c. Having a single overriding paradigm that unifies the entire user interface


d. Ensuring a uniform look-and-feel across all application programs

Question 12

0.05 out of 0.05 points


When designing an operating system, what should be considered to ensure architectural coherence?

Selected
Answer:

 b. Whether to design the GUI or the system-call interface first

Answers:

a. How the users interact with application programs

 b. Whether to design the GUI or the system-call interface first


c. How the programmers write application programs

- d. Whether the system should support a single GUI or many possible GUIs

Question 13

0.05 out of 0.05 points

In his book, The Mythical Man Month, Fred Brooks, estimated that planning took about___ of the work.

Selected Answer:  a. 1/3

Answers:  a. 1/3

b. 1/8

c. 1/6

d. 1/4


Question 14

0.05 out of 0.05 points

One of the most important issues is how to make all the features of the system hang together well and present what is often called

Selected Answer:  d. architectural coherence


Answers:

- a. architectural continuity
- b. architectural consistency
- c. architectural rationality
-  d. architectural coherence


Question 15

0.05 out of 0.05 points

The ability of code to be executed more times simultaneously is called

Selected Answer:  b. reentrancy

Answers:

- a. rearrangement
-  b. reentrancy
- c. reusability
- d. recreate

Question 16

0.05 out of 0.05 points

programs exhibit common memory access patterns, known as?

Selected Answer: ☒ c. locality

Answers:

- a. Client
- b. server
- ☒ c. locality
- d. Memory

Question 17

0.05 out of 0.05 points

In a multicomputer system, what is the primary method of communication between processors?

Selected Answer: ☒ c. Message passing

Answers:

- a. Shared memory
- b. Serial communication
- ☒ c. Message passing
- d. Parallel communication

Question 18

0.05 out of 0.05 points

For general-purpose operating systems what is not one of the 4 main four main items a designer would want?

Selected Answer: ☒ a. slow hardware

Answers: ☒ a. slow hardware

b. isolation

c. primitive operations

d. Defined abstractions.

Question 19

0.05 out of 0.05 points

Why is it important for application programs to use the same paradigm in the user interface?

Selected Answer: ☒ d. To ensure a uniform look-and-feel across all application programs

- Answers:
- a. To provide libraries and tool kits to application developers
 - b. To create a completely different paradigm for voice input
 - c. To allow users to interact more directly and more intuitively with the device
 - ☒ d. To ensure a uniform look-and-feel across all application programs


Question 20

0.05 out of 0.05 points

Which is not an attribute?

Selected Answer:  c. Mass name

Answers:

- a. Bitmap
- b. Object ID
-  c. Mass name
- d. Reparse point

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Question 1

0.05 out of 0.05 points

What are the two execution paradigms?

Selected Answer  c. Algorithmic and event driven.

Answers:

- a. Algorithmic and processing.
- b. Wait and running execution paradigms.
-  c. Algorithmic and event driven.
- d. Event driven and running.
- e. Identification and sensing

Question 2

0.05 out of 0.05 points

What is the primary challenge of maintaining cache coherence in a multiprocessor system?

Selected
Answer
:

☒ d. Ensuring all caches have the same data for a given memory address

Answers:

a. Reducing power consumption

b. Managing the size of the cache

c. Balancing the load between processors

☒ d. Ensuring all caches have the same data for a given memory address

Question 3

0.05 out of 0.05 points

Cloud-based operating systems, also known as

Selected Answer:

☒ c. web operating systems

Answers:

a. NONE

b. Linux and windows

☒ c. web operating systems

d. OS

Question 4

0.05 out of 0.05 points

Which of the following is a main item for general-purpose operating systems?

Selected Answer: ☒ d. All of the Above.

- Answers:
- a. Defining abstractions.
 - b. Providing primitive operations.
 - c. Ensuring isolation.
 - ☒ d. All of the Above.

Question 5

0.05 out of 0.05 points

One type of: brute force attacks is

Selected Answer: ☒ a. Cryptanalysis

- Answers:
- ☒ a. Cryptanalysis
 - b. Ciphertext

- c. Cryptology
- d. Cryptography

Question 6

0.05 out of 0.05 points

Which of these is not one of the four main items that should be considered when designing an operating system?

Selected

Answer:

☒ c. **Provide detailed/complicated operations.**

Answers:

a. Provide primitive operations.

b. Define abstractions.

☒ c. **Provide detailed/complicated operations.**


d. Ensure isolation.

Question 7

0.05 out of 0.05 points

Which of the following principles of the interface design prioritizes a simple and understandable user experience?

Selected Answer:  b. Principle 1: Simplicity


- Answers:
- a. Principle 4: complexity
 -  b. Principle 1: Simplicity
 - c. Principle 2: Completeness
 - d. Principle 3: Efficiency

Question 8

0.05 out of 0.05 points

Which of the Performs the architectural design and writes the code?

Selected Answer:  c. Chief programmer

- Answers:
- a. Administrator
 - b. Regular programmer
 -  c. Chief programmer
 - d. Copilot

Question 9

0.05 out of 0.05 points

The ability of code to be executed more times simultaneously is called

Selected Answer: ☒ d. reentrancy

- Answers:
- a. reusability
 - b. recreate
 - c. rearrangement
 - ☒ d. reentrancy

Question 10

0.05 out of 0.05 points

Which of the following best defines reentrancy in software development?

Selected Answer: ☒ a. **The ability of code to be executed two or more times simultaneously**

- Answers:
- ☒ a. **The ability of code to be executed two or more times simultaneously**
 - b. The ability of code to be executed on a single processor only
 - c. The ability of code to be executed without the need for mutexes or interrupt handlers
 - d. The ability of code to be executed once and produce the same result each time

Question 11

0.05 out of 0.05 points

What is the most important aspect of a GUI-level interface and a system-call interface?

Selected
Answer:

☒ d. Having a single overriding paradigm that unifies the entire user interface

Answers:

- a. Ensuring a uniform look-and-feel across all application programs
- b. Providing libraries and tool kits to application developers
- c. Allowing users to interact more directly and more intuitively with the device
- ☒ d. Having a single overriding paradigm that unifies the entire user interface

Question 12

0.05 out of 0.05 points

What is orthogonality?

Selected

Answer:

☒ b. The ability to combine separate concepts independently.

Answers:

a. The ability to separate concepts individually.

☒ b. The ability to combine separate concepts independently.

c. The ability to combine odd concepts dependently.

d. All the above.

Question 13

0.05 out of 0.05 points

Execution Paradigms have two widespread versions: ____ and ____.

Selected Answer:

☒ d. Event driven; algorithmic

Answers:

a. User; kernel

b. Process; application

c. Primary; secondary

☒ d. Event driven; algorithmic


Question 14

0.05 out of 0.05 points

Are there any principles that can guide interface design?

Selected Answer:  d. All the above


Answers:

- a. Efficiency
- b. completeness
- c. simplicity
-  d. All the above


Question 15

0 out of 0.05 points

How many layers in design for a modern operating system?

Selected Answer:  c. 5


Answers:

- a. 2
-  b. 7
- c. 5
- d. 1


Question 16

0.05 out of 0.05 points

Which file system is commonly used in Linux operating systems?

Selected Answer:  b. Ext4


Answers:

- a. FAT32
-  b. Ext4
- c. HFS+
- d. NTFS


Question 17

0.05 out of 0.05 points

What is the correct order of path through the cache to the hardware?

Selected Answer:  a. User ->Cache manager -> I/O manager

Answers:

-  a. User ->Cache manager -> I/O manager
- b. Cache manager -> I/O manager -> user
- c. I/O manager -> cache manager -> user
- d. I/O manager -> user -> cache manager

Question 18

0.05 out of 0.05 points

In a multicomputer system, what is the primary method of communication between processors?

Selected Answer: ☒ b. Message passing

- Answers:
- a. Shared memory
 - ☒ b. Message passing
 - c. Parallel communication
 - d. Serial communication

Question 19

0.05 out of 0.05 points

What is the basic idea behind the algorithmic execution paradigm?

Selected Answer: ☒ c. Programs are started to perform a pre-determined function that is hardwired into the code, with system calls made as needed.


- Answers:
- a. Programs are event-driven, responding to external events such as user input or system notifications.
 - b. Programs are designed to work with multiple possible graphical user interfaces (GUIs).
 - ☒ c. Programs are started to perform a pre-determined function that is hardwired into the code, with system calls made as needed.


- d. Programs are written in a declarative style that defines the desired outcome rather than the steps to achieve it.

Question 20

0.05 out of 0.05 points

Usually, a user or application can only access files via using the ?

Selected Answer:  a. file management system.

Answers:  a. file management system.

b. applications

c. application management system

d. files

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