

Started on	Tuesday, 18 November 2025, 11:34 AM
State	Finished
Completed on	Tuesday, 18 November 2025, 11:38 AM
Time taken	3 mins 18 secs
Marks	17.00/20.00
Grade	85.00 out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

In TCP, which mechanism ensures that the sender does not overwhelm the receiver?

- a. Flow Control
- b. Slow Start
- c. Congestion Control
- d. Error Control

Question 2

Complete

Mark 1.00 out of 1.00

Internal fragmentation occurs when—

- a. allocated memory is larger than requested
- b. requested memory is larger than allocated
- c. memory is scattered
- d. processes swap too frequently

Question 3

Complete

Mark 1.00 out of 1.00

The main purpose of a semaphore is to—

- a. Speed up disk access
- b. Allocate memory effectively
- c. Provide process synchronization
- d. Increase CPU throughput

Question 4

Complete

Mark 1.00 out of 1.00

What happens if a class has at least one pure virtual function?

- a. It is automatically instantiated
- b. It becomes an abstract class
- c. It cannot be inherited
- d. It cannot have constructors

Question 5

Complete

Mark 1.00 out of 1.00

What is the purpose of a subnet mask?

- a. To determine the IP class
- b. To encrypt traffic
- c. To separate network and host portions of an IP
- d. To identify the MAC address

Question 6

Complete

Mark 0.00 out of 1.00

What is the size of an empty class in C++?

- a. 2 bytes
- b. Depends on compiler
- c. 0 bytes
- d. 1 byte

Question 7

Complete

Mark 1.00 out of 1.00

Which C++ feature allows the same function name but different parameters?

- a. Encapsulation
- b. Function Overloading
- c. Virtualization
- d. Inheritance

Question 8

Complete

Mark 1.00 out of 1.00

Which collection class maintains insertion order?

- a. HashSet
- b. TreeMap
- c. HashMap
- d. LinkedHashMap

Question 9

Complete

Mark 1.00 out of 1.00

Which device operates at the Network Layer?

- a. Bridge
- b. Hub
- c. Router
- d. Switch

Question 10

Complete

Mark 1.00 out of 1.00

Which exception is thrown when a thread is waiting and interrupted?

- a. IOException
- b. TimeoutException
- c. InterruptedException
- d. RuntimeException

Question 11

Complete

Mark 1.00 out of 1.00

Which keyword is used to inherit a class in Java?

- a. implement
- b. inherits
- c. extends
- d. super

Question 12

Complete

Mark 1.00 out of 1.00

Which method is used to start a thread in Java?

- a. start()
- b. execute()
- c. init()
- d. run()

Question 13

Complete

Mark 1.00 out of 1.00

Which of the following is a deadlock prevention technique?

- a. Banker's algorithm
- b. Preempt all resources from a process
- c. Make processes request all resources at start
- d. Resource allocation graph

Question 14

Complete

Mark 1.00 out of 1.00

Which of the following is NOT a feature of Java?

- a. Bytecode execution
- b. Platform independence
- c. Multiple inheritance through classes
- d. Automatic garbage collection

Question 15

Complete

Mark 1.00 out of 1.00

Which of the following is NOT a feature of UDP?

- a. Connection-oriented
- b. Fast transmission
- c. Suitable for real-time applications
- d. No retransmission

Question 16

Complete

Mark 1.00 out of 1.00

Which of the following is true about virtual functions?

- a. They cannot be overridden
- b. Their calls are resolved at compile time
- c. They enable runtime polymorphism
- d. They cannot be inherited

Question 17

Complete

Mark 0.00 out of 1.00

Which operator cannot be overloaded?

- a. ()
- b. ::
- c. []
- d. +

Question 18

Complete

Mark 1.00 out of 1.00

Which process state indicates that the process is waiting for I/O?

- a. Running
- b. New
- c. Ready
- d. Blocked

Question 19

Complete

Mark 1.00 out of 1.00

Which protocol is responsible for converting domain names to IP addresses?

- a. ICMP
- b. ARP
- c. DHCP
- d. DNS

Question 20

Complete

Mark 0.00 out of 1.00

Which scheduling algorithm may lead to starvation?

- a. FCFS
- b. Round Robin
- c. SJF
- d. Priority Scheduling