

# Take Test: H7\_Midterm\_Practice

## Test Information

Description Hybrid Activity Week 7  
Practice multiple choice questions for Midterm I

### Instructions

Multiple Attempts This test allows multiple attempts.

Force Completion This test can be saved and resumed later.

✖ Question Completion Status:

Save and Submit

### QUESTION 1

1. To implement an RMI server application, the following method call is necessary to make a certain service available on a certain port:
- All three of these answers
  - None of these three answers
  - Naming.lookup
  - LocateRegistry.createRegistry
  - Naming.rebind

1 points

### QUESTION 2

1. Which of the following statements is true?
- All three of these answers
  - The Java code for creating an `ExecutorService` could be `ExecutorService executor = Executors.newCachedThreadPool () ;`
  - The Executor interface helps manage the execution of Runnable objects.
  - The Executors class has a method `newCachedThreadPool` that returns an `ExecutorService`
  - None of these three answers

1 points

### QUESTION 3

1. Which of the following statements is true?
- None of these three answers
  - All three of these answers
  - UDP should not be used for Video Applications
  - UDP stands for Unreliable Datablock Protocol
  - UDP is designed for speed, not reliability

1 points

#### QUESTION 4

1. Which of the following is not a valid, possibly partial, state sequence for a Java thread?
- Running -> Blocked -> Runnable -> Sleeping
  - All three of these answers
  - Runnable -> Running -> Blocked -> Runnable
  - None of these three answers
  - Runnable -> Running-> Sleeping -> Runnable

1 points

#### QUESTION 5

1. To implement an RMI client application, the following method call is necessary to bind to an RMI service:
- Naming.rebind
  - UnicastRemoteObject.exportObject
  - LocateRegistry.createRegistry
  - None of these three answers
  - All three of these answers

1 points

#### QUESTION 6

1. Which pairing of words best represents a correspondence in the context of Java Persistence?
- Class : Column
  - Column : Entity
  - Entity : Field
  - Table : Instance
  - Object : Row

1 points

#### QUESTION 7

1. Object-Relational Mapping (ORM) deals with
- matching each attribute of an object to its corresponding row in a database table
  - mapping objects in OOP to relational entities in a database
  - matching stubs of objects on a client to remote objects on a server
  - mapping methods of client objects to remote stubs on a server

1 points

#### QUESTION 8

1. Which of the following statements is true about Java multi-threading?
- Java's automatic garbage collection is an example of a daemon thread.
  - None of these three answers

- All threads in Java run at the same priority.
- Java's automatic garbage collection is an example of a high-priority thread.
- All three of these answers

1 points

#### QUESTION 9

1. JDBC is

- an SQL extension for Java
- an implementation of SQL in Java
- an API for Java programs to communicate with databases
- an implementation of mysql in Java
- an acronym for Java Database Byte Code

1 points

#### QUESTION 10

1. The Java code block `synchronized(someObject){<statements>}` would mean

- All three of these answers
- Any thread executing `<statements>` will `wait()` for a `notify()` if it accesses `someObject`
- None of these three answers
- Any thread executing `<statements>` must have registered its own monitor lock
- Any thread executing `<statements>` must have acquired the monitor lock on `someObject`

1 points

#### QUESTION 11

1. The Java code block `public synchronized void doIt() {<statements>}` would mean

- Only one thread at a time can run `<statements>`
- Only one thread at a time can run the object's `doIt()` method
- None of these three answers
- Only one thread at a time can run the `doIt()` method
- All three of these answers

1 points

#### QUESTION 12

1. Which of the following statements is true about Java multi-threading?

- None of these three answers
- It is important to take into account whether the base platform supports time-slicing.
- Java's multi-threading implementation is platform dependent
- All three of these answers
- The Microsoft Windows platform supports time-slicing

1 points

### QUESTION 13

1. In the context of Enterprise Programming, Hibernate is
- a Java extension of mysql
  - a persistence framework for Java
  - an RDBMS for Java
  - a Java implementation of SQL
  - an implementation of JDBC for Java RMI programs

1 points

### QUESTION 14

1. Which of the following statements about Java networking is true?
- A Client needs to listen on a well known port number
  - None of these answers
  - A Server needs to listen on a port number that is known to the client
  - A Server initiates a connection to a Client on a well-known port
  - All of these answers

1 points

### QUESTION 15

1. Which of the following statements about Java multithreading is false?
- None of these three answers
  - Each thread has a priority
  - A Sleeping thread may enter the Runnable state due to an Interrupt
  - All threads of equal priority run simultaneously
  - All three of these answers

1 points

### QUESTION 16

1. Which of the following statements is true?
- A Java thread that issues a `wait()` call enters the Blocked state
  - All three of these answers
  - None of these three answers
  - A Java thread that has nothing to do might issue a `wait()` call
  - A Java thread that has nothing to do might issue a `notifyAll()` call

1 points

### QUESTION 17

1. Which of the following is a valid, possibly partial, state sequence for a Java thread?
- Blocked -> Running -> Sleeping -> Dead
  - None of these three answers

- Runnable -> Blocked -> Running -> Dead
- All three of these answers
- Sleeping-> Runnable -> Running -> Dead

1 points

#### QUESTION 18

1. Regarding TCP/IP, a difference between UDP and TCP is that

- None of these three answers
- TCP and UDP both establish connections, but only TCP is reliable
- UDP packets might need to be explicitly resent by the application if they are lost
- UDP involves IP packets, whereas TCP does not
- All three of these answers

1 points

#### QUESTION 19

1. Which of the following statements is true?

- `suspend()`, `resume()`, and `stop()` are recommended for proper thread management
- `notify()`, `notifyAll()`, and `wait()` are never called in synchronized code
- `notify()`, `notifyAll()`, and `wait()` should be called only in synchronized code
- All three of these answers
- None of these three answers

1 points

#### QUESTION 20

1. Which pairing of words best represents a correspondence in the context of Java Persistence?

- Entity : Table
- Class : Column
- Attribute : Row
- Table : Instance
- Column : Entity

1 points

#### QUESTION 21

1. Which of the following statements is true about Java Remote Method Invocation (RMI):

- It provides the ability to download the definition of an object's class when the class is not defined in the Java Virtual machine
- None of these three answers
- The types and behaviors of an object can be transmitted to another Java Virtual Machine
- New types and behaviors can be introduced into a remote Java Virtual Machine
- All three of these answers

1 points

**QUESTION 22**

1. A Java RMI remote object may use the `UnicastRemoteObject.exportObject()` method to be linked into RMI

- False
- True

1 points

**QUESTION 23**

1. In the context of Java Objects, Serialization

- Is involved in sending objects across a network
- None of these three answers
- Is possible for Java objects that implement the `Serializable` interface
- Is necessary for Remote Method Invocation to pass Object parameters
- All three of these answers

1 points

**QUESTION 24**

1. Which pairing of words best represents a correspondence in the context of Java Persistence?

- Class : Column
- Object : Class
- Column : Entity
- Table : Instance
- Attribute : Column

1 points

**QUESTION 25**

1. Which of the following statements is true about a remote object in a Java RMI implementation

- It must extend the `java.rmi.server.UnicastRemoteObject` class
- All three of these answers
- It must declare a `java.rmi.RemoteException` in its constructor
- None of these three answers
- Its methods may only take primitive data types as arguments

1 points

**QUESTION 26**

1. The role of Hibernate in a Java application with persistence is an

- alternative for SQL
- intermediary between Java and JDBC
- intermediary between JDBC and an RDBMS
- alternative for an RDBMS

alternative for JDBC

**1 points**

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