

QUIZ#2 SOLUTION

MCQS

1. The java compiler _____ **translate source code to byte code**
- 2) The order of three top level elements of java source file is **package,import,class**
- 3). Which of these class is used to read and write bytes in a file? **c) FileInputStream**
- 4) A _____ clause cannot exist without a try statement. **c) both**
- 5) 5) Which of these data type is returned by every method of OutputStream? **d) None(void)**
- 6) Java uses **UNICODE** to represent characters
- 7) Java programs are **platform-independent**
- 8) Which packages contain the JDBC classes. **c) java.sql and javax.sql**
- 9) Thread class is available in ? **b) java.lang package**
- 10) Which method is used to start thread execution? **B) start**

Short Questions.

[1] Difference between AWT and Java Swing.

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AWT and Swing are both part of a group of Java class libraries called the Java Foundation Classes (JFC). The **Abstract Windowing Toolkit (AWT)** is the original GUI toolkit shipped with the Java Development Kit (JDK). ... **Swing** is the latest GUI toolkit, and provides a richer set of interface components than the **AWT**.

[2] Define multithreaded programming.

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It is a process of executing **multiple threads** simultaneously. **Multithreading** is also known as Thread-based Multitasking. Multiprocessing: It is same as multitasking, however in multiprocessing more than one CPUs are involved. On the other hand one CPU is involved in multitasking.

[3] What is meant by abstract base class

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An abstract class is a class that is declared abstract —it may or may not include abstract methods. Abstract classes cannot be instantiated, but they can be **subclassed**. When an abstract class is **subclassed**, the **subclass** usually provides implementations for all of the abstract methods in its parent class.

[4] Explain the life cycle of thread.

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1.Born state 2.Runnable state 3.Running state 4.Blocked state 5.Dead state.

5] If a thread object quits from run loop,How could be the thread object gets restarted?

Answer:

No, such threads cannot be restarted. For this we have another way of creating a loop with a wait/notify or have to create a new thread.

[6] Explain the byte code concept of java.

Bytecode is the compiled format for **Java** programs. Once a **Java** program has been converted to **bytecode**, it can be transferred across a network and executed by **Java**Virtual Machine (JVM). **Bytecode** files generally have a .class extension.

[7] **How an Interface differ from a class in Java:**

1. Interfaces cannot be initiated.
2. Interfaces does not contain any constructor.
3. Methods of an interface are abstract.
4. An interface cannot be extended by a class, but can be implemented by a class.
5. An interface does not have instance fields. They should be declared as bot static and final.
6. An interface can extend multiple interfaces

[8]List any five awt components in java

Lables,buttons,Checkboxes,RadioButtons,TextAreas

OUTPUT

a) AaBaaCaaa

b)1 2

c)0 0 4

d)MyThread foo

Coding part :