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**Question Paper Code: 34203**

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Fourth Semester

Computer Science and Engineering

01UCS403 – JAVA PROGRAMMING

(Common to Information Technology)

(Regulation 2013)

Duration: One hour

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

**(Answer any six of the following questions)**

1. **Characteristic of an object includes**

- (a) **State**                      (b) **Identity**                      (c) **Behavior**                      (d) **All the above**

2. Consider `public class MyClass{ public MyClass(){/*code*/} // more code... }` To instantiate `MyClass`, you would write?

- (a) `MyClass mc = new MyClass();`                      (b) `MyClass mc = MyClass();`                      (c) `MyClass mc = MyClass;`  
(d) `MyClass mc = new MyClass;`

3. Which of these can be used to fully abstract a class from its implementation?

- (a) **Objects**                      (b) **Packages**                      (c) **Interfaces**                      (d) **None of these**

4. **Java does not support \_\_\_\_\_ inheritance**

- (a) **Multiple**                      (b) **Multilevel**                      (c) **Hierarchy**                      (d) **Simple**

5. Which function of pre-defined class `Thread` is used to check weather current thread being checked is still running?

- (a) `is Alive ()`                      (b) `Join ()`                      (c) `is Running ()`                      (d) `Alive ()`

6. **The following one is wrong with the concept of thread**
- (a) **Defines a separate path of execution**
  - (b) **Smallest unit of dispatchable code**
  - (c) **Require their own separate address space**
  - (d) **Inexpensive and low cost for context switching**
7. Event class is defined in which of these libraries
- (a) java.io                      (b) java.lang              (c) java.net              (d) java.util
8. Which is the container that doesn't contain title bar and MenuBars. It can have other components like button, textfieldetc?
- (a) Window                      (b) Frame                      (c) Panel                      (d) Container
9. Which of these classes can be used to implement input stream that uses a character array as the source
- (a) Buffered Reader    (b) File Reader
- (c) Char Array Reader    (d) File Array Reader
10. Which of these is a method of ObjectOutputStream interface used to finalize the output state so that any buffers are cleared?
- (a) clear()                      (b) flush()                      (c) fflush()                      (d) close()

**PART – B (3 x 8= 24 Marks)**

**(Answer any three of the following questions)**

11. Write a java program to find factorial of a given number using default and parameterized constructors. (8)
12. Write a Java program that implements multiple inheritance using interface. (8)
13. Write a java program to implement producer-consumer problem using thread synchronization. (8)
14. Explain in detail about AWT event hierarchy model. (8)
15. What is object serialization? Explain with example. (8)