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10MCA33

**Third Semester MCA Degree Examination, June/July 2015**  
**Programming with Java**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions.**

- 1 a. List and explain the characteristics features of Java language. With a block diagram, state the process of general structure of simple Java program. (10 Marks)
- b. Explain the following with an example. (10 Marks)
  - i) Bitwise operators.
  - ii) Type conversions.
  - iii) For-each.
- 2 a. Demonstrate with a program (10 Marks)
  - i) Overloaded constructions.
  - ii) Dynamic method dispatch.
- b. Explain the following with examples. (10 Marks)
  - i) Static
  - ii) finalize() method
  - iii) object as parameters.
- 3 a. What are abstract class and Interfaces? Give the difference between abstract class and Interface with proper examples. (10 Marks)
- b. What is an exception handling? Explain the try, catch throw, throws and finally block with suitable examples? (10 Marks)
- 4 a. What is the life cycle of a thread? Discuss the different approaches for creating threads with suitable examples. (10 Marks)
- b. What is Serialization? Given the benefits and Demonstrate with a program the serializing and Deserializing an object. (10 Marks)
- 5 a. Explain the following. (10 Marks)
  - i) Enumeration.
  - ii) Generics.
- b. Define string and string buffer class. Explain any five methods of string and string buffer class with examples. (10 Marks)
- 6 a. Give an Java.lang hierarchy. Explain in detail about wrapper classes with examples. (10 Marks)
- b. Explain the following. (10 Marks)
  - i) The ArrayList class.
  - ii) The TreeSet class.
- 7 a. Explain the various Networking classes and Interfaces using Java.net package. (10 Marks)
- b. What is a event Delegation model and what are the event classes and event Interfaces? Give an example using keyboard event. (10 Marks)
- 8 a. What is Applet? Give the life cycle of an Applet. Write an applet program to find factorial of a given number. (10 Marks)
- b. What are swings? List the phases of swings. Demonstrate a simple swing application program. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
 2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.

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