

**56084**

**MBA 2 Yr. 4th Semester (N.S.)**

**Examination-May, 2015**

**Programming in JAVA**

**Paper-MBA-416**

**Time : 3 hours**

**Max. Marks : 50**

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Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

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**Note :** Attempt **all** five parts of the question in section-A. Attempt **four** questions selecting **one** question from each unit in section-B. All questions carry equal marks.

**Section-A**

**1. Explain the following:**

(a) JAVA tokens

- (b) Looping structures used in JAVA programming
- (c) Packages in JAVA programming
- (d) Remote applet
- (e) Abstract Window Toolkit (AWT)

## **Section-B**

### **Unit-I**

2. What is the significance of JAVA programming to the internet? Which development tools of object oriented programming are included in JAVA environment? Describe the structure of a typical JAVA program with the help of an example.
3. (a) Explain the concept of JAVA virtual machine with the help of a diagram.  
  
(b) What is the difference between ternary and Boolean logical operators?

- (c) Illustrate the scope and lifetime of variables in JAVA programming taking a suitable example.

### **Unit-II**

4. (a) What do you mean by overriding method? Use a suitable example to show its effect in Java programming.
- (b) What is multithreading? How can we create a thread in Java? Illustrate through a suitable example.
5. What do you mean by exception handling? How is it implemented in Java? Illustrate with a suitable example.

### **Unit-II**

6. What is applet programming? What are the different states of an applet life cycle? How can we create an executable applet? Explain.

7. (a) How many arguments can be passed to an applet using <PARAM> tags?
- (b) Illustrate I/O basics by writing a simple JAVA program.

#### **Unit-IV**

8. List and explain any five AWT classes along with their description. Write source code in Java for creating a frame, window in an applet.
9. (a) Explain various controls supported by Abstract Window Toolkit along with their syntaxes.
- (b) What do you understand by layout manager? Illustrate.