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MCA (Fourth Semester) Examination, April-May 2017

(New Course)

(Computer Applications Branch)

ADVANCED JAVA PROGRAMMING

Time Allowed: Three hours

Maximum Marks: 100

Minimum Passing Marks: 40

Note: Answer any two parts from each question. All questions carry equal marks. While reading class names for Java ignore case.

Unit - I

Explain the differences between String and String Buffer class in Java. Write a Java source code to read a name from the user as command line

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parameter and display the reverse of that name.

A sample execution case is given as:

javac ReverseString.java James

The Reversed name is - semaJ

- List the differences between an Abstract class and an Interface. What are the uses of the following interfaces? http://www.csvtuonline.com
 - (i) java.lang.Runnable
 - (ii) java.io.Serializable
- What is the importance of static methods in Java? When should be a method of a class declared as static? What is the difference between a static method of a class and a static block of a class.

Unit - II

- Explain the working of java.util.HashMap and java.util.HashSet classes in java. List some other important classes in the Java collection framworks.
 - With the help of example source codes explain the different techniques to create a user defined thread in Java. List the important methods of java.lang.Thread class.

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Write a well documented Java source code to illustrate the use of try, throw, catch and finally statements in Java. Mention the output for some sample executions of the code.

Unit - III

- Write a well documented Java source code to copy 3. (a) the contents of one text file into another using suitable input and output stream classes.
 - Explain the use of the java.net.InetAddress and (b) java.net.URLConnection classes in Java. List the important methods from these classes.
 - Explain the concept of Remote Method Invocation. (c)

Unit - IV

Write a well documented java source code using Swing components that displays a button contained in a frame. Provide event handling functionality to the button so that it displays the message "Hello World" on a JOptionPane message dialog on the click event.

What are the benefits of Swing components over AWT components?

[4]

What are Layout Managers? Using block diagrams explain the different types of Layouts Managers available in Java.

Unit - V

- Write a documented Java source code to demonstrate the technique of passing parameter to an Applet using the <param>tag of HTML.
 - Draw and explain the life cycle of an Applet. Explain the working of the method getDocumentBase() and getCodeBase() methods of java.applet.Applet class.

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Explain the architecture of Servlets. What is the use of cookies?

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210]

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