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Roll No .....

**MCTA-203**  
**M.E./M.Tech., II Semester**  
 Examination, June 2017  
**Advance Programming with J2EE**  
*Time : Three Hours*

Maximum Marks : 70

**Note :** i) Attempt any five questions.  
 ii) All questions carry equal marks.

1. a) Explain with an example how you could achieve 'Multiple inheritance' in Java. 7  
 b) Explain in detail about JDBC architecture. 7
2. Explain string class and its various methods. Write a Java program to demonstrate any two string operations. 14
3. a) Write a Java program for internal mark calculation with AWT packages. Give an example. 7  
 b) Describe the use of 'throws' with suitable example. 7
4. What is Thread? Explain multithreading with suitable example. 14
5. Discuss Java database connectivity. Explain JDBC connectivity with suitable example. 14

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6. a) Write the various features of Java Beans and Servlets. 7  
 b) What is Jar files? Write its advantages. 7
7. a) Illustrate the Servlet life cycle and its methods. 7  
 b) Describe the various types of exceptions and illustrate how they are handled? 7
8. Write short notes on (any two) 14  
 a) CORBA  
 b) RMI  
 c) Multithreading

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