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10MCA33

**Third Semester MCA Degree Examination, December 2012**

**Programming with JAVA**

Time: 3 hrs.

Max. Marks:100

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

- 1 a. State and explain the three object oriented principles. (06 Marks)  
b. Explain the type conversion and casting. (06 Marks)  
c. Explain the different types of iteration statements and jump statements with an example. (08 Marks)
- 2 a. Explain this keyword, finalize ( ) method and static keyword. (06 Marks)  
b. Explain the use of super keyword. (04 Marks)  
c. What are interfaces? What are their benefits? Explain how it is implemented. (10 Marks)
- 3 a. Explain throw, throws and finally. (06 Marks)  
b. Write a program using threads to display fibonacci series between m and n. Each display should be paused for 1 second. Extend thread class to create threads. (08 Marks)  
c. Explain how you can create your own exception. Give an example. (06 Marks)
- 4 a. Explain FileInputStream and Byte Array Input Stream with example. (06 Marks)  
b. What is enumeration? Explain values ( ) and valueOf ( ) methods with example. (08 Marks)  
c. Explain the concept of autoboxing. (06 Marks)
- 5 a. What are generics? Explain with an example and give general form. (06 Marks)  
b. Explain any five methods of String Buffer class of string. Write a program to demonstrate it. (10 Marks)  
c. Which are the methods used for searching strings? Give the syntax. (04 Marks)
- 6 a. What are applets? Explain different stages of applet. (06 Marks)  
b. Explain the concept of event delegation model. Write a program to demonstrate mouse event. (10 Marks)  
c. Explain JTextField class. (04 Marks)
- 7 a. What is a stream class? List out the methods and explain any one with example. (10 Marks)  
b. Explain concept of URL and its connection. (10 Marks)
- 8 Write short notes on:  
a. Dynamic method dispatch  
b. Interthread communication  
c. Primitive type wrappers  
d. Linked List class. (20 Marks)

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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.