

USN

--	--	--	--	--	--	--	--	--	--

10MCA33

**Third Semester MCA Degree Examination, Dec.2014/Jan.2015**  
**Programming with JAVA**

Time: 3 hrs.

Max. Marks:100

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

- 1 a. Discuss nested and inner classes, with example. (04 Marks)  
 b. Explain briefly three OOPS principles. (06 Marks)  
 c. Explain the uses of for-each looping control statement with an example. (06 Marks)  
 d. Explain automatic type promotion with an example. (04 Marks)
- 2 a. Write a program to implement integer stack. (05 Marks)  
 b. Explain how to pass arguments to superclass constructor, with an example. (08 Marks)  
 c. Explain dynamic method dispatch with a program. (07 Marks)
- 3 a. Explain how threads are created implementing runnable interface, with example. (10 Marks)  
 b. Write a program which demonstrates how to create your own exception. (10 Marks)  
 c. Explain autoboxing in JAVA
- 4 a. What is synchronization? Explain how JAVA supports synchronization, with example. (10 Marks)  
 b. Explain FileInputStream and FileOutputStream, with examples. (05 Marks)  
 (05 Marks)
- 5 a. What are generic classes? Explain generic class with type parameters with program. (10 Marks)  
 b. Explain :  
 i) trim()  
 ii) valueOf (05 Marks)  
 c. Briefly explain the type wrappers. (05 Marks)
- 6 a. List collection classes. Explain ArrayList class, with example. (10 Marks)  
 b. Explain TCP/IP server sockets. (10 Marks)
- 7 a. What is an applet? Explain the applet selection. (08 Marks)  
 b. Write an applet program to handle mouse events. (08 Marks)  
 c. Explain any four EventListener Interfaces. (04 Marks)
- 8 Write short notes on :  
 a. throw and throws  
 b. Enumeration  
 c. serialization  
 d. HTTPURL connection. (20 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.

1 copy

Highly Confidential document EOC-192 @ 16-12-2014 13:39:30