

Code: 9F00305

MCA III Semester Regular &amp; Supplementary Examinations November 2016

**JAVA PROGRAMMING**

(For 2011, 2012, 2013, 2014 &amp; 2015 admitted batches only)

Time: 3 hours

Max. Marks: 60

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) "Java is platform independent and a robust language". Support or oppose this statement.  
(b) What is a constructor? Why is it important for object creation?
- 2 (a) Differentiate class, abstract class and interface.  
(b) Implement the concept of dynamic method dispatch in java.
- 3 (a) Discuss the scope of variables in inner classes.  
(b) Give an example and usage of anonymous inner class.  
(c) How to create a package in a project? Write a code snippet.
- 4 (a) List the methods of map interfaces.  
(b) Write a program to generate random numbers between 2D and 5D using java utilities.
- 5 (a) Compare byte streams with character streams.  
(b) List the operations on random access file.  
(c) Write an account on InetAddress class.
- 6 (a) How to define a user – defined exception? Discuss with an example program.  
(b) What are the built – in method supported by java for inter - thread communications?
- 7 (a) Give AWT class hierarchy.  
(b) Discuss all the kinds of buttons in swing package.  
(c) What is meant by flow layout?
- 8 (a) Briefly describe delegation event model.  
(b) Construct an applet to accept (read) user name and display the greetings ("Good morning username") along with a smiley picture.



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