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**CSS 405**

**First Semester M.Sc. Degree Examination, December 2018/January 2019**  
**COMPUTER SCIENCE**  
**Java Technology**

Time : 3 Hours

Max. Marks : 70

**Note :** Answer **any five** questions. **All** questions carry **equal** marks.

1. a) Discuss the features of C-language which are not supported in java. State the reasons for non-support of such features in java technology. 7  
b) What are the different types of operators in Java ? 7
2. a) What is JDK ? What are the tools provided by JDK for developing and running java program ? Explain their functionalities. 7  
b) How 'compile once and run anywhere' is implemented in Java ? Explain. 7
3. a) What is a constructor ? Mention the properties and illustrate example to demonstrate constructor overloading. 7  
b) What is applet ? Write an applet program to display the message "Welcome to Mangalore". Set the background color to green and foreground to red. 7
4. a) Explain briefly the life cycle of java applet programming. 7  
b) What is an exception ? Explain the different exception handling mechanisms with an example. 7
5. a) What is thread ? Explain two ways of creating a thread in Java with examples. 7  
b) What is an event listener ? Explain different methods of mouse listener, mouse motion listener and key listener interface. 7
6. a) Describe synchronization in respect to multithreading. 7  
b) What are inner classes ? Briefly discuss the various types of inner classes. 7

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- 7. a) Explain the general steps involved in connecting a java program to a Database with suitable examples. 7
  - b) Write a swing program to demonstrate with two buttons named India and Japan. When either of buttons pressed, it should display respective label with its icon. 7
  - 8. a) Differentiate between JDBC driver types with neat diagram. 7
  - b) What is swing ? List the main swing features. Explain the different types of panes of swing containers. 7
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