

**SUBJECT CODE:- 362**  
**FACULTY OF ENGINEERING AND TECHNOLOGY**  
**T.E.(CSE/IT) Examination Nov/Dec 2015**  
**Programming in Java**  
**(Revised)**

[Time: Three Hours]

[Max. Marks: 80]

“Please check whether you have got the right question paper.”

- N.B i) Question No. 1 and 6 are compulsory.  
 ii) Attempt any two questions from each section.  
 iii) Figures to the right indicate full marks.

**Section A**

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|-----|--|----|
| Q.1 | a) Attempt any five  | 10 |
|     | i) How to prevent super class methods from overriding?   |    |
|     | ii) What are the advantages of using vector class?   |    |
|     | iii) What is thread synchronization and why it is important?   |    |
|     | iv) Define an interface.   |    |
|     | v) Differentiate between checked and unchecked exception.  |    |
|     | vi) Define a two dimensional array. Write a sample code to access it.  |    |
|     | vii) What is byte code?  |    |
| Q.2 | a) Explain with an example method overriding. What is need of method overriding?   | 08 |
|     | b) Write a program to convert string into numeric value using wrapper class.   | 07 |
| Q.3 | a) Shape class contains length, height and area functions. Display contains show function. Rectangle class calculates area and prints area by using show function. Relate shape, display with rectangle class. Write a java code to implement above. | 08 |
|     | b) What is constructor? Give its properties. Write a sample code to overload it.   | 07 |
| Q.4 | a) Explain the concept of packages. What are the types of packages? How to add class to a package?   | 07 |
|     | b) Explain thread life cycle. Write a sample code of it.   | 08 |
| Q.5 | a) What is a use of throws keyword? How to use it in code.   | 07 |
|     | b) Explain with an example various access protections available in java.   | 08 |

**SECTION-B**

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|------|---|----|
| Q.6  | Attempt any five of the following:  | 10 |
|      | i) Define socket. How to create it?   |    |
|      | ii) A class required to handle events on Button. Which listener should it implement? Write sample code. |    |
|      | iii) Why swing is called light weight component?  |    |
|      | iv) What is adapter class?  |    |
|      | v) List JDBC drivers.   |    |
|      | vi) Write any four methods if text field component of swing.  |    |
|      | vii) What is object serialization?  |    |
| Q.7  | a) Design an applet to calculate factorial of number. Write code.                                       | 08 |
|      | b) Student table contains roll no, F name and address. Write a code to display all records of student.  | 07 |
| Q.8  | a) Write a code to create client server application.  | 08 |
|      | b) Draw hierarchy and explain readers and writers classes.  | 07 |
| Q.9  | a) Design a calculator to perform addition and subtraction using swing component.                       | 08 |
|      | b) Explain the life cycle of an Applet.   | 07 |
| Q.10 | a) What is the difference between prepared statement and statement?                                     | 05 |
|      | b) When you will use menu component? Write a sample code to create menu and submenu.                    | 05 |
|      | c) What are commonly used methods in event handling?  | 05 |