

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 |