

II B. Tech II Semester Supplementary Examinations January – 2014
OBJECT ORIENTED PROGRAMMING THROUGH JAVA
(Com. to CSE, IT, ECC)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions
All Questions carry **Equal** Marks

1. a) Discuss the advantages of object oriented paradigm.
b) Discuss briefly about method binding, overriding and method overloading in Java.
2. Explain in detail about the ways of achieving run-time polymorphism in Java with suitable program.
3. a) Explain with a sample Java program the various modes of usage of “this” keyword.
b) Differentiate between Abstract class and Concrete class. Illustrate with example.
4. a) Discuss the significance of CLASSPATH for Java packages.
b) Explain how to define and implement an interface.
5. What are Java’s unchecked Runtime Exception Subclasses? Explain them with suitable examples.
6. Discuss life style of an Applet and communication among applets.
7. Write Java program to handle Keyboard events.
8. What is the advantage of Layout managers? Why Java prefers Layout Managers instead of fixing the component by x and y coordinates? What are the different Layout managers AWT supports?

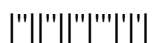
II B. Tech II Semester Supplementary Examinations January – 2014
OBJECT ORIENTED PROGRAMMING THROUGH JAVA
(Com. to CSE, IT, ECC)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions
All Questions carry **Equal** Marks

1. a) What is meant by class responsibilities? Explain with suitable examples how the responsibilities of a class can be implemented
b) Write short notes on abstraction.
2. a) What is meant by constructors? Discuss their importance and explain various types of constructors that Java support with a sample Java program.
b) What is meant by type casting? Explain with a sample Java program
3. a) State and explain with a sample program the various forms of inheritance and also explain the advantages and drawbacks of inheritance
b) What is meant by an abstract class? Discuss its significance with a sample Java Program
4. a) State and explain various methods defined by Applets classes.
b) Write about types of applets.
5. Explain the following terms briefly:
 - a) Component
 - b) Container
 - c) Panel
 - d) Window
6. Why applets are preferred over applications? Explain lifecycle of an applet with a program
7. a) Write about nested classes
b) Explain grid bag layout with example.
8. a) In What way JList differ from JComboBox?
b) Write a stand-alone AWT based application which creates a frame window that responds to mouse clicks and key strokes.



II B. Tech II Semester Supplementary Examinations January – 2014**OBJECT ORIENTED PROGRAMMING THROUGH JAVA**

(Com. to CSE, IT, ECC)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** QuestionsAll Questions carry **Equal** Marks

~~~~~

1. a) Discuss briefly about method binding, overriding and method overloading in Java  
b) Discuss the different ways in which Java achieves “one interface, multiple methods” aspect of polymorphism
2. a) What does toString( ) method returns? How is it handled in Java? Explain with an example  
b) Describe the usage of ‘final’ and ‘finalize’ keywords.
3. a) Discuss in detail about nested classes with examples.  
b) Write about substitutability
4. a) Prove that field in an interface are implicitly static and final.  
b) What is the importance of CLASSPATH for packages? Explain with an example.
5. What are the Java’s unchecked exceptions defined in java.lang? Explain the with suitable examples.
6. Create an Applet with two toolbars. One toolbar should be created with JButtons and a separator and another toolbar created using custom Action classes. Add one to the north another to the south sides of border layout. When user clicks one of the buttons in toolbar it will print a message to the console stating that which button is being pressed from which toolbar. Add functionalities to the button such as New, Open, Close, Save, Cut, Copy, Paste.
7. Describe the following along with their methods and Constructors
  - a) ActionEvent,
  - b) AdjustmentEvent
  - c) ComponentEvent
  - d) ContainerEvent.
8. a) JList does not support scrolling. Why? How this can be remedied? Explain with an example.  
b) Write about JTabbedPanels.