

Set No. 1

Code No: M1021/R07

IV B.Tech. I Semester Supplementary Examinations, February/March - 2011
OBJECT ORIENTED PROGRAMMING
(Electronics & Instrumentation Engineering)

Time: 3 Hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. a) What is the need for going to object oriented paradigm? [8+8]
b) What is abstraction? Give few examples
2. a) Differentiate method over loading and method overriding. [8+8]
b) how to declare 2-dimensional array in Java? Write a Java programme for addition of 2 matrices.
3. Write in detail about member access rules in Java. [16]
4. "Java indirectly supports multiple inheritance". Justify it and also give suitable Java program. [16]
5. a) Write use of following with an example of Java programme [12+4]
 - i) try
 - ii) catch
 - iii) throw
 - iv) throwsb) Write about thread groups.
6. What is delegation event model? Explain it with example. [16]
7. a) Write different types of applet? Explain how to pass parameters for an applet.
b) Write about the following in swings [8+8]
 - i) JComponent
 - ii) JFrame
8. Write a client server program where client sends a message "Hai server" then server send a message "hai client". [16]

Set No. 2

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Time: 3 Hours

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Answer any FIVE Questions
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1. Write about the following [4x4]
 - a) class
 - b) object
 - c) member variables
 - d) member functions

2. What is constructor? Can we over load constructors? Give an example program [16]

3. Write about the following [8+8]
 - a) Final keyword
 - b) Abstract classes

4. Write about the following [5+5+6]
 - a) Creating packages
 - b) Accessing a package
 - c) Importing a package

5.
 - a) Differentiate multi threading and multi tasking. [10+6]
 - b) Write about daemon threads.

6. Write about the following [8+8]
 - a) Adopter classes
 - b) Inner classes

7.
 - a) Explain the life cycle of an applet. [6+10]
 - b) Write about the following classes in swings
 - i) Jbutton class
 - ii) Check boxes class in swings

8. Write any 4 classes in Java.net package. [16]

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Set No. 3

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Max Marks: 80

Answer any FIVE Questions
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1. a) Differentiate functional programming and object oriented programming [6+10]
b) Briefly explain the following object oriented concepts
 - i) encapsulation
 - ii) inheritance

2. a) What is garbage collector? Explain. [8+8]
b) Write about control statements in Java.

3. Write and explain different types of inheritance supported by Java. Give an example Java programme for each. [16]

4. a) Differentiate class and interface. Give an example java program for it [8+8]
b) Mention few classes in java.io package.

5. a) Explain thread life cycle with neat diagram. [8+8]
b) Write a Java program which creates two threads and 1st thread print the numbers from 1 to 1000, 2nd thread prints numbers from 2000 to 1000.

6. Briefly write about user interface components. [16]

7. a) What is applet? Write simple applet to display some message. [6+10]
b) Write a simple calculator program which contains digits from 0 to 9 and gives out put for the operations +, *, -, / using swings.

8. Write any 4 classes in Java.util package [16]

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Set No. 4

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**OBJECT ORIENTED PROGRAMMING
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Time: 3 Hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. Explain the following object oriented concepts with examples [4x4]
 - a) Abstraction
 - b) Encapsulation
 - c) Polymorphism
 - d) Inheritance
2. a) Explain the concept of type casting in Java. [8+8]
b) Write about parameter passing mechanism in Java
3. a) Can we write static method as abstract? Explain. [8+8]
b) Write all uses of "super" keyword in Java
4. Write about the following [5+5+6]
 - a) Defining interface
 - b) Implementing Interface
 - c) Applying interfaces
5. What is the concept of exception handling In java? Give an example Java programme for it. [16]
6. Write about the following layout manages. Give an example for each. [8+8]
 - a) Boarder
 - b) Grid
7. a) Differentiate applet and application. [6+10]
b) Write a java program to compute factorial of given number using swings.
8. a) Write about the following [8+8]
 - i) Socket
 - ii) Port
b) Write any 2 classes in Java.util package.