Code No: RT22052 **R13** SET - 1

II B. Tech II Semester Supplementary Examinations, Nov/Dec-2016
JAVA PROGRAMMING
(Com. to CSE, IT)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the questions in **Part-A**
3. Answer any **THREE** Questions from **Part-B**

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PART –A

1. a) What is importance of Unicode in java? Explain. (3M)
   b) Explain about the this keyword with examples. (4M)
   c) Explain about the importance of extend and implement keywords. (4M)
   d) What is light weight process? Discuss. (3M)
   e) What is adapter class? Give examples. (4M)
   f) Differentiate between Text field and Text area and also discuss it's constructors and method. (4M)

PART -B

2. What are java Buzzwords? Explain about them. (16M)

3. a) What is an array? How arrays are declared and initialized? Explain with examples. (8M)
   b) Write a java program to check the given string is a palindrome or not. (8M)

4. a) Differentiate method overloading with method overriding with examples. (8M)
   b) What is interface? How to create it and access it? Explain with example. (8M)

5. a) Explain about java.lang.thread package. (8M)
   b) How to set priorities for threads? Discuss with examples. (8M)

6. a) Discuss about different event classes. (6M)
   b) Write a java program using listeners for handling keyboard events (10M)

7. a) Explain about the components and containers of AWT. (8M)
   b) Discuss different Layout managers. (8M)

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Code No: RT22052 **R13** SET - 1

II B. Tech II Semester Regular Examinations, April/May - 2016
JAVA PROGRAMMING
(Com. to CSE, IT)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **THREE** Questions from **Part-B**

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PART –A

1.	a)	What is the significance of Java's byte code?	(3M)
	b)	List the various ways of 'static' keyword usage.	(4M)
	c)	Differentiate class, abstract class and interface.	(3M)
	d)	How does Java support inter thread communication?	(4M)
	e)	What are the differences between applet and application programs?	(4M)
	f)	Give an overview of JButton class	(4M)

PART –B

2.	a)	What are the drawbacks of procedural languages? Explain the need of object oriented programming with suitable program.	(10M)
	b)	Discuss the lexical issues of Java.	(6M)
3.	a)	Illustrate constructor overloading.	(8M)
	b)	Explain precedence rules and associativity concept	(8M)
4.	a)	With suitable code segments illustrate various uses of 'final' keyword.	(8M)
	b)	How to handle multiple catch blocks for a nested try block? Explain with an example.	(8M)
5.	a)	Describe Java's thread model.	(7M)
	b)	What is a stream? What is the difference between byte streams and character streams? How are they used to capture input from the user?	(9M)
6.	a)	What is the role of event listeners in event handling? List the Java event listeners	(8M)
	b)	Write an applet to display the mouse cursor position in that applet window.	(8M)
7.	a)	Discuss various AWT containers with examples.	(8M)
	b)	Construct an application to explain the use of JTabbedPane.	(8M)

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Code No: RT22052 **R13** SET - 2

II B. Tech II Semester Regular Examinations, April/May - 2016
JAVA PROGRAMMING
(Com. to CSE, IT)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **THREE** Questions from **Part-B**

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PART –A

1.	a)	Compare inheritance with polymorphism	(4M)
	b)	Write about garbage collection	(3M)
	c)	Give the basic keywords used in exception handling.	(4M)
	d)	List the thread states and give state transition diagram	(4M)
	e)	What is an adapter class? Give any two examples for it.	(3M)
	f)	Differentiate between swing components and AWT components.	(4M)

PART –B

2.	a)	Compare procedural languages with object oriented languages	(8M)
	b)	Explain the important features of Java.	(8M)
3.	a)	List various types of statements and quote suitable examples for each type.	(9M)
	b)	With a program illustrate the use of command line arguments.	(7M)
4.	a)	Explain multilevel inheritance with the help of abstract class in your program.	(8M)
	b)	How to define a user exception in a program? Illustrate with an example.	(8M)
5.	a)	Write a program to implement multi thread programming.	(10M)
	b)	Explain thread synchronization	(6M)
6.	a)	Explain delegation event model in detail.	(8M)
	b)	Write an applet to display a smiley with a greeting message to the user.	(8M)
7.	a)	What is the significance of Layout managers? Discuss briefly various layout managers.	(10M)
	b)	Write a note on split Pane.	(6M)

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Code No: RT22052 **R13** SET - 3

II B. Tech II Semester Regular Examinations, April/May - 2016
JAVA PROGRAMMING
(Com. to CSE, IT)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **THREE** Questions from **Part-B**

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PART –A

1. a) List the applications of object oriented programming. (3M)
   b) Illustrate the usage of 'this' keyword. (4M)
   c) How to create and use a package in Java program? (4M)
   d) Write about thread suspension and resume (3M)
   e) Compare nested class with inner class. Give examples for each (4M)
   f) Differentiate between grid layout and gridbag layout managers. (4M)

PART –B

2. a) Discuss the principles of object oriented languages in detail. (10M)
   b) What is the role and responsibility of JVM in program execution? (6M)

3. a) What are the primitive data types in Java? Write about type conversions. (8M)
   b) What is a constructor? What is its requirement in programming? Explain with program. (8M)

4. a) Write a program to implement multiple inheritances. (8M)
   b) What is an exception? How are exceptions handled in Java programming? Explain (8M)

5. a) Describe the need of thread synchronization. How is it achieved in Java programming? Explain with a suitable program. (10M)
   b) Differentiate between FileReader and BufferReader. (6M)

6. a) What is an applet? Explain its life cycle. (8M)
   b) Write a program to handle mouse events and mouse motion events. (8M)

7. a) Write a program to create a frame for a simple arithmetic calculator using swing components and layout mangers. (10M)
   b) Compare the features of Applet with JApplet. (6M)

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Code No: RT22052 **R13** SET - 4

II B. Tech II Semester Regular Examinations, April/May - 2016
JAVA PROGRAMMING
(Com. to CSE, IT)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **THREE** Questions from **Part-B**

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PART –A

1.	a)	Differentiate between abstraction and information hiding.	(4M)
	b)	What are the naming conventions for Java identifiers?	(4M)
	c)	What is an assertion? What is its use in programming?	(3M)
	d)	Define thread. How is it different from a process?	(3M)
	e)	Give the sources of action event and item event	(4M)
	f)	List the features of Menu component of AWT.	(4M)

PART –B

2.	a)	List and explain Java buzzwords. Which factors are making Java famous language?	(10M)
	b)	Give the program structure of Java.	(6M)
3.	a)	How to create objects? Does Java support object destruction? Justify your answer.	(8M)
	b)	Write a Java program to find the sum of the squares of the diagonal elements of a square matrix.	(8M)
4.		What are the benefits of inheritance? Explain various forms of inheritance with suitable code segments.	(16M)
5.	a)	Explain thread life cycle and thread creation in Java.	(8M)
	b)	Write a program to read user name from console and display some message for that user using streams.	(8M)
6.	a)	Discuss the applet structure and compare it with application structure.	(8M)
	b)	Write a program to handle keyboard events.	(8M)
7.	a)	Construct a frame with necessary components for bus reservation system of an agent.	(10M)
	b)	Write a note on dialog box usage in user interfaces.	(6M)

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Code No: RT22052 **R13** SET - 1

II B. Tech II Semester Supplementary Examinations, Dec - 2015
JAVA PROGRAMMING
(Com. to CSE, IT)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **THREE** Questions from **Part-B**

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PART –A

1.	a)	What is byte code? How it will be generated?	(3M)
	b)	Explain about the static keyword with examples.	(4M)
	c)	What is abstract class? Discuss with example.	(3M)
	d)	How to read data in java file? Discuss.	(4M)
	e)	What is event delegation model? Discuss.	(4M)
	f)	Discuss about JTabbedPane and split pane.	(4M)

PART -B

2.	a)	What is procedural language? Differentiate between procedural language and OOP.	(8M)
	b)	What are the features of java? Explain.	(8M)
3.	a)	Java was used for internet applications. Why?	(4M)
	b)	Discuss about primitive data types.	(4M)
	c)	Write a java program to generate the Fibonacci series.	(8M)
4.		What are different types of inheritances? Discuss with examples for each.	(16M)
5.	a)	Explain life cycle of a thread with neat diagram	(8M)
	b)	Discuss about thread synchronization.	(8M)
6.	a)	What are the sources of Event? Discuss.	(6M)
	b)	Write a java program using listeners for handling mouse events	(10M)
7.	a)	Discuss about different layouts in AWT? What is default layout	(8M)
	b)	Discuss about java.awt.package.	(8M)
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Code No: RT22052 **R13** SET - 1

II B. Tech II Semester Regular Examinations, May/June – 2015
JAVA PROGRAMMING
(Com. to CSE, IT)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **THREE** Questions from **Part-B**

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PART-A

1. a) What is Object Oriented Programming? How it is different from Procedural concepts?
   b) What is an Object? How to allocate memory for objects?
   c) Can a method be overloaded based on different return type but same argument type ?
   d) What is the purpose of Alive () function in Java.
   e) "Java class can be used both as an applet as well as an application" - Support this statement with an example.
   f) What are the different types of controls available in AWT?
   g) What are assertions?
   h) "Interfaces are able to extend more than one Interface but a Class can't extend more than one Class" - Why? (4M+4M+4M+2M+4M+4M+2M+4M)

PART - B

2. a) Explain briefly the following object oriented concepts.
      i) Abstraction ii) Polymorphism
   b) "Java is called Machine Independent language" - Justify this statement with proper explanation. (8M+8M)

3. a) Write a Java program to sort a given set of strings in the alphabetical order where the strings are supplied through the command line.
   b) What do you mean by static class and static method? Can we make an instance of an abstract class? Justify your answer with an example? (8M+8M)

4. a) What are the different forms of inheritance? Explain.
   b) How Packages differ from Interfaces? Explain it with a suitable example program to calculate student marks statement. (8M+8M)

5. a) Write a Java program that prints numbers from 1 to 10 line by line after every 5 seconds
   b) What is thread synchronization? Discuss with an example. (8M+8M)

6. a) Write a Java program to create a combo box which includes list of subjects. Copy the subjects in text field on click using applet.
   b) Differentiate between init() and start() methods with examples. (8M+8M)

7. a) Write a Java program to illustrate the use of Flow Layout Manager.
   b) Write a short note on the following i) JList ii) JScrollPane (8M+8M)
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Code No: RT22052 **R13** SET - 2

II B. Tech II Semester Regular Examinations, May/June – 2015
JAVA PROGRAMMING
(Com. to CSE, IT)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **THREE** Questions from **Part-B**

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PART-A

1. a) Write a short note on the features of Object Oriented Programming
   b) List out the characteristics of the static method.
   c) What is the difference between an interface and an abstract class?
   d) What is the importance of synchronization in java?
   e) What is the role of layout manager in AWT or Swing?
   f) What are the ways in which we can pass parameters to the applet?
   g) What are the advantages of event driven programming?
   h) "Java does not support operator loading" - Support this statement with appropriate reasoning. (4M+4M+4M+2M+4M+2M+4M+4M)

PART - B

2. a) Write a Java program to generate a pyramid of numbers for given number N using for loop.
   b) Discuss on the advantages and disadvantages of Object Oriented Programming. (8M+8M)

3. a) Write a Java program to accepts a file name as command line argument and finds The Length of the longest line in the file and displays an error message if the file Does not exist.
   b) Explain various access specifies supported by Java with an example (8M+8M)

4. a) Write a java program to illustrate "Constructor Overloading".
   b) What are the various types of exceptions available in Java? Also discuss on how they are handled? (8M+8M)

5. a) Write a Java program for creating four threads to perform the following operations
   i) Getting N numbers as input ii) Printing the even numbers
   iii) Printing the odd numbers iv) Computing the average
   b) Explain how communication between threads takes place with a programming example. (8M+8M)

6. a) Write Applets programs to accomplish the following tasks:
   i) Drawing polygons ii) Drawing a line graph.
   b) Can applet class have a constructor? Justify your answer with proper explanation and example. (8M+8M)

7. a) Discuss in detail Menu bars and menus in Java with examples.
   b) Write a short note on the following
   i) JFrame ii) JTabbedPane (8M+8M)
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II B. Tech II Semester Regular Examinations, May/June – 2015
JAVA PROGRAMMING
(Com. to CSE, IT)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **THREE** Questions from **Part-B**

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PART-A

1. a) "Write Once and Run Anywhere" - Support this statement with proper reasoning.
b) What is a constructor? When does the compiler supply default constructor for a class?
c) Differentiate between array and vector with examples.
d) What is a daemon thread?
e) What is an event? What methods are available to handle events in java?
f) List out the differences between AWT and Swings.
g) Give an example to illustrate the use of parseInt() method?
h) What is the difference between the >> and >>> operators?
(4M+4M+2M+4M+4M+4M+2M)

PART – B

2. a) Write a Java program to interchange the rows and columns of a given matrix.
b) Write short note on the following Object Oriented concepts
i) Encapsulation ii) dynamic binding (8M+8M)

3. a) Discuss various control structures available in Java.
b) Write a program to perform the following functions using classes, objects, constructors and destructors wherever necessary
i) Read 5 subjects marks of 5 students
ii) Calculate the total and print the result on the screen (8M+8M)

4. a) Explain Creating Packages and Accessing a Package with examples.
b) Write a Java program to find the area and perimeter of square and circle using interface.
(8M+8M)

5. a) Explain the following with necessary code snippets
i) Creating thread ii) Stopping and Blocking a Thread
b) "Threads can be given priorities" - Support this statement with suitable example. (8M+8M)

6. a) Describe the different stages in the life cycle of an Applet.
b) Explain in brief the event-handling mechanism in java with an example. (8M+8M)

7. a) Explain about any two Layout Managers with example programs.
b) Explain the features of Swings in java. (8M+8M)
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Code No: RT22052 **R13** SET - 4

II B. Tech II Semester Regular Examinations, May/June – 2015
JAVA PROGRAMMING
(Com. to CSE, IT)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **THREE** Questions from **Part-B**

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PART-A

1. a) Write a Java program to find the value of n!, where n is a given integer.
b) Illustrate type casting in java with an example.
c) Differentiate between sleep () and wait ().
d) Discuss various methods used to create threads?
e) What is source and listener in java event handling?
f) List the features of swings.
g) "Abstract classes can be defined without any abstract methods" - support this statement with proper reasoning.
h) What is the difference between & operator and && operator?
(4M+2M+4M+4M+4M+4M+2M)

PART - B

2. a) Write a Java program to check whether a given number is palindrome or not?
b) Explain about Java Tokens with examples. (8M+8M)

3. a) Write a java program to simulate the operation of numerical calculator to perform the functions Addition (+), Subtraction (-), Multiplication (*) and Division (/).
b) Explain clearly about how Java handles cleaning up of unused objects. (8M+8M)

4. a) Explain about Exception Handling in Java with examples.
b) Why do constructors does not have any return type? Explain it with proper example.
(8M+8M)

5. a) Write a Java program to demonstrate multithreading operation.
b) Explain various thread states and properties in detail. (8M+8M)

6. a) Write an applet program that has different shapes in it.
b) Explain action event with suitable example. (8M+8M)

7. a) Explain any two AWT controls in java with suitable examples.
b) Design a screen in Java which accepts text in text box. If the left mouse is clicked, convert the text to uppercase and if the right button is clicked, convert it to lower case.
(8M+8M)

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