Code No: RT42024A

R13

Set No. 1

IV B.Tech II Semester Regular/Supplementary Examinations, April - 2018 OOPS THROUGH JAVA

(Electrical and Electronics Engineering)

Time: 3 hours Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B *****

		PART-A (22 Marks)	
1.	a)	Explain the importance of Java to Internet.	[4]
	b)	Explain scope and lifetime of variables.	[3]
	c)	What are types of inheritances in Java? Explain.	[4]
	d)	Differentiate between process and thread.	[3]
	e) f)	What is an Applet? What are the differences between local and remote applets? What is swing? Discuss its features.	[4] [4]
		$\underline{\mathbf{PART-B}} \ (3x16 = 48 \ Marks)$	
2.	a)	What are the principles of object oriented languages? Explain.	[8]
	b)	Explain how object oriented programming overcomes the shortcomings of	507
		procedure oriented programming.	[8]
3.	a)	Explain control statements of JAVA with suitable example.	[8]
	b)	What is constructor? Explain with an example.	[8]
4.	a)	When will you use the keyword 'super'? Write a Java program using super	
		keyword.	[8]
	b)	Discuss about packages of java language.	[8]
5.	a)	Write a program in JAVA that creates a Child Thread of main using Runnable	
		interface and uses the following methods:-	
		(i) getName()	
		(ii) setName() (iii) setPriority()	[8]
	b)	Explain about adapter classes.	[8]
	0)	Explain about adapter classes.	[0]
6.	a)	Explain different event classes supported by Java.	[8]
	b)	Explain handling keyboard events with an example.	[8]
7.		Describe about various components in AWT.	[16]
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Set No. 2

IV B.Tech II Semester Regular/Supplementary Examinations, April - 2018 OOPS THROUGH JAVA

(Electrical and Electronics Engineering)

Time: 3 hours Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B *****

 $PART-\underline{A}$ (22 Marks) What is the contribution of Java to the World Wide Web? [3] 1. a) Write the precedence of operators in Java and explain the way to alter this order by using suitable example. [4] c) Explain the significance of public, protected and private access specifiers in inheritance. [4] d) Write short notes on creation of a thread. [4] e) Differences between Applets and Applications. [4] What are the limitations of AWT? [3] PART-B (3x16 = 48 Marks)2. a) Explain the general syntax of writing an application program in Java. Also explain the steps to run an application Java program. [8] Write a brief note on JVM. How a Java program is converted into machine code? [8] What are expressions? What are different types of expressions? Explain. 3. a) [8] What is class? Explain it with the help of an example. [8] 4. a) What are the differences between private, static and final variables? [8] What is an exception? What are different exceptions in Java? Explain how you can handle exception in JAVA. [8] 5. a) What is Multithreading? In how many ways java implements multithreading? [8] Explain. b) Write a short notes on Java.io package [8] What are the methods supported by keyListener interface and mouseListener 6. interface? Explain each of them with examples. [16] 7. Describe about various components in SWING. [16]

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Set No. 3

IV B.Tech II Semester Regular/Supplementary Examinations, April - 2018 **OOPS THROUGH JAVA**

(Electrical and Electronics Engineering)

Time: 3 hours Max. Marks: 70 Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B **** PART-A (22 Marks) What are difference between C++ and Java? 1. a) [4] b) Explain 'this' keyword. [3] Explain about final classes, final methods and final variables. [4] c) Explain the life cycle of thread. [4] What are different types of Applets? [3] What are the different types of containers defined in Swing? f) [4] PART-B (3x16 = 48 Marks)Explain the concepts of encapsulation, inheritance, dynamic binding and 2. a) message communication using an examples. [8] b) What are the differences procedural oriented languages and object oriented programming language? [8] What is an operator? Explain different types of operators. 3. a) [8] What is garbage collection? Explain in detail. [8] What is package? Explain the procedure to create a package with the help of 4. a) example. [8] b) Explain method overloading with an example program. [8] 5. a) What is the importance of synchronization in multithreading programming? [8] b) How inter thread communication is done in Java? Write a java program to create multithreads with different priorities. [8] 6. a) Explain in detail about the following event classes (i) ComponentEvent (ii) ContainerEvent (iii) FocusEvent [8] b) What is adapter class and how you can use it for event handling easier in programming? [8] 7. a) What is swing? Explain its features. How are swings different from AWT? [8] b) Explain about JTabbedPane. [8]

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Code No: RT42024A

Set No. 4

${\bf IV~B. Tech~II~Semester~Regular/Supplementary~Examinations,~April~-2018}$

OOPS THROUGH JAVA

(Electrical and Electronics Engineering)

Time: 3 hours Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B

PART-A (22 Marks)

1.	a)b)c)d)e)f)	What is the need for OOP paradigm? Explain briefly type conversion and casting. When do we declare a method or class as final? Explain about io reading and writing functions. Write a program for Java Applet which has withdrawal form of Bank. Write short notes on JFrame.	[4] [4] [3] [3] [4] [4]
		$\underline{\mathbf{PART-B}} \ (3x16 = 48 \ Marks)$	
2.	a) b)	What are the applications of object oriented programming language? What are the main features of Java?	[8] [8]
3.	a)	Compare in terms of their functions, the following pairs of statements, (i) while and do-while	
	b)	(ii) while and for Explain method overloading and constructor overloading.	[8] [8]
4.	a)	What is multiple inheritance? Explain how it can be implemented in Java with the help of an example.	[8]
	b)	Explain catch block in java with the help of an example program.	[8]
5.	a) b)	What is thread? Explain its lifecycle in detail. Define multithreading? Explain the producer consumer problem using multi	[8]
	0)	threading.	[8]
6.	a)	What are the components and other graphical user interface elements that can act as source of events? What are the events that can be generated by the above	
	1- \	elements? Explain.	[8]
	b)	What is inner classes? How are they useful in simplifying the code while using event adapter classes?	[8]
7.		What is layout manager? What are its different types? Explain any two layout managers.	[16]