	# R	Roll No. ; Total Printed Pages : 2	
C. C. C. C.	B.Tech. (Sem.VI) (Main) Examination, May/June-2011 Computer Engineering 6CS4 Programming in JAVA		
(Ti	me:3	[Total Marks : 80 [Min. Passing Marks : 24	
que nec	essar	ot any five questions, selecting one question from each unit. Also carry equal marks. (Schematic diagrams must be shown wherevery.) Any data you feel missing may suitably be assumed and stated finits of quantities used/calculated must be stated clearly. UNIT-I	
1.	(a) (b)	Explain java virtual machine. What is the significance of java byte code in java programming language? (6) Explain Type conversion and Type casting in Java with an	
	(c)	example. Explain the following operators with an example: (i) Bitwise operators	
	<i>i</i>	(ii) Relational operators and Boolean logic operators. (6) OR	
1.	(a)	How can you implement an array in Java, whose size may change during execution of a program? (4)	
	(b)	Explain briefly the following object oriented concepts: (i) Abstraction and Encapsulation (ii) Methods and messages (iii) Inheritance (iv) Polymorphism	
L ear	82 S	UNIT – II	
	(a)	Write object oriented program in java which covers following concept: (i) Using break (ii) Using continue (iii) Return (6)	
	(b)	(i) Using break (ii) Using continue (iii) Return (6) What is method overloading? What are the important points which should be taken care of while overloading methods?(6)	
	(c)	Write a java program to explain the "Using final with inheritance".	

(4)

OR

2	. (a	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
2	. (a	January Program in lava to exemplify different
		types of visibility modifiers namely:
		(i) Public (ii) Protected
		(iii) Private (iv) Private Protected
	24°3	(v) friendly (default).
	(b)	Explain about explicitly invoking garbage collector and finalize O
		method, with an example. (6)
22		UNIT – III
3.	(a)	besome the purpose and applications
	1990s - No.	of interface.
	(b)	How do you add a class or an interace to a package? Explain
		with an example.
	(c)	What is string buffer? Give the three ways of creating a
		NUMBER OF THE STATE OF THE STAT
		OR (6)
3.	(a)	Explain with the help of a java program how an interface
		CALL DE TINETT TO SUPPORT PRINTERS AND AND AND
	(b)	Describe the various levels of access protection available in
		packages and their implications with an example program.(8)
		UNIT – IV
4.	(a)	What is main difference between Readers/Writers and Input/
		Output streams? Give a few sub classes of Reader and Writer
		CIASS
	(b)	Write a detail note on byte streams and character streams in
		Java
		OR (10)
4.	Wri	te detail note on exception handling in terms of following:
	(i)	Try-catch (ii) The finally keyword
	(iii)	Catching multiple exceptions
	(iv)	The throws keyword and Theresis
		UNIT - V (16)
5.	(a)	Explain the structure of applet, with the help of example.(8)
	(b)	Describe complete life cycle of thread. How thread is different
	500	14000 DIACESS/
		OR (8)
5.	$(a)^{\perp}$	Describe the concept of applet. What are various types of
		TRUBULES I VOIDIN THE RECOGNISS OF THE STATE OF
	(b)	Briefly explain: (10)
	secretarii €11	(i) Thread Synchronization (ii) Thursday
		(6)