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6E3204	B. C. 60 C	6E3204 .Tech VI Semester(Main/Back) Exam. May, 2012 omputer Engg. CS4 Programming in Java ommon to CS & IT
Tim	e:3	Hours Maximum Marks: 80
	At Al wi ar U	Min. Passing Marks: 24 Institute to Candidates: It tempt any five questions. Selecting one question from each unit It Question carry equal marks. Schematic diagrams must be shown therever necessary. Any data you feel missing suitably be assumed and stated clearly. Inits of quantities used/calculated must be stated clerly. It will 2 Nil
1		<u>Nil</u> 2NII
	Ø	UNIT - I
1.	(a)	What do you mean by object oriented programming? Explain the basic Features of java with example.
	(b)	Why java is important for internet? Explain the role of JVM in jav with example.
	(c)	Write difference between automatic conversion and type casting wit suitable example.
		Or
1.	(a)	What do you mean by java Buzzwords and java Literals? Explain with example.
	(b)	Write short notes on the following:
9		i) Operator precedence
100		ra1

- ii) Short Circuit Logical Operator
- (c) The following code results in complication errors. Debug the code and correct the problem.

```
Class Number Value
  Public static void main (string [] args)
      int number=3;
        switch (number)
              Case o;
                 System.out.println ("Number is o");
                   break;
                   Case1:
                      System.out.prinln ("Number is 1");
                        break;
                   Case 2:
                   Case 3:
                   Case 3:
                      System.out.println ("Number is 2, 3 or 4");
                        break;
                    Default:
                           System.out.println ("Number is less
                       than 0 or greater than 4");
```

UNIT-II

```
    2 .(a) Write a Java program to print the pattern.
    $ $ $ $ $
    $ $ $ $
    $ $ $
    $ $ $
    $ $ $
    $ $ $
    $ $ $
```

	(b)	What is multilevel inheritance? Demonstrate a multilevel inheritan with a program code.	ice 6	
	(c)	What is dynamic method dispatch in method overriding? Explain with Example.	6	
	8	Or		
2.	(a)	What is the role of a constructor in java? Explain parameterized constructor with an Example.	on- 6	
	(b)	Explain the use of the following with example		
		 i) Super ii) final iii) this iv) Iteration statements v) Abstract class 	10	
		UNIT - III		
3.	(a)	Define package in java? what are the benefits of using package? Explain with suitable example.	Ex- 8	
	(b)	Write all similarities and differences between interfaces and class with example.	ses 8	
	B	Or		
3.	(a)	What is interface? Give an example to defining and implementing a interface.		
* * * * * * * * * * * * * * * * * * *	, (b)	Write short notes on the following string operation. i) CharAt() ii) indexOf() iii) substring iv) append	8	
		UNIT - IV	læ:	
4.	(a)	What is exception handing? What are the types of exception? write code to handle arrayOutOfBound exception.	te a	
	(b)	Write java program to read primitive data from the file and wi primitive data to the file.		
			8	
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4.	Write short notes on the following:					
	i)	try and catch iii) fin	ally			
	ii)	throws iv) I	O streams [4X4=	=16]		
	9	Ü	NIT-V			
5.	(a)	What are the difference between threads and processes? How we can extend the thread class? explain with Example (code).				
	(b)	What is applet? Describle the complete life cycle of a applet.				
	(c)	Write a applet program for drawing a human face.				
		e en e	Or			
5 .	(a)	the state of the s	etween multiprocessing and multithread plement these in a program?	ling? 8		
8 8	(b)	Write a applet program to	draw a filled circle with in an oval.	6		
	(c)	Describe the three ways	of drawing polygons.	4		
		•	a a			