06	Roll No [Total No. of Pages : 2
	4E 2090
209	B.Tech. IV Semester (Main/Back) Examination - 2012
4E	Electronics & Comm.
	4EC6.1 Object Oriented Programming
	Common for 4EC6.1, 4EC6.1, and 4BM6.1

Time : 3 Hours

Maximum Marks : 80

Min. Passing Marks : 24

Instructions to Candidates:

Attempt any **Five questions** selecting **one question** from **each unit**. All questions carry **equal marks**. (Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly.) Units of quantities used/calculated must be stated clearly.

Unit - I

1.	a)	What is object oriented technology.	(2)
	b)	Explain various features of object oriented programming language.	(8)
	c)	How many types of operator's are used in C++. Explain.	(6)
		OR	
	a)	Define class and objects.	(4)
	b)	Differentiate the Public and Private member's of the class with the of accessing them both.	methods (12)
		Unit - II	
2.	a)	Explain the Enhancement in C++ over C.	(4)
	b)	Explain the term polymorphism with a suitable example.	(6)
	c)	What are inline function? Give an example of inline function.	(6)
		OR	
	a)	Explain virtual functions with an example.	(5)
	b)	Differentiate single, multiple and multilevel inheritance.	(7)
	c)	How does a object of drive class access the member of base class.	. (4)
4E2090/20		2012 (1)	[Contd

	Unit - III	
3. a)	Explain the concept of Byte Code in JAVA.	(4)
b)	Explain the key features of JAVA in detail.	(7)
c)	Give reason why JAVA is considered to be fully object oriented program language. OR	nming (5)
a)	What is Java Virtual Machine.	(3)
b)	What is JDK? Explain its various tools.	(6)
r (o : 24	Write a Java Program to Sort Ten numbers using. Merge sort methods Unit - IV	
4. a)	Write a JAVA Program to check the number even or odd.	(8)
b)	Explain operator precedence with suitable example.	(8)
	umittes used/calculated must be SOJ clearly.	
a)	Write a JAVA Program to print the following Pattern, input is number of 1	oflines
	What is object oriented technology.	
) Explain various features of object oriented programming language	
	I Get the set of a set are used in C++, 01xpla9. 8 7	(8)
b)	Explain the following operators.	
(4)	i) Relational operators.	(4)
	ii) Boolean logic operators. Differentiate the Public and V - Vint - V	(4)
(11) 5. a)	Explain the procedure of using classes from Built in Packages with the suitable example.	help of (10)
(b) b)	How interface is different from abstract class. one find and mining a	(6)
	Explain the term polymorphism with a suitable example.	
(a) a)	What is package and how can we create a package in JAVA. Explain.	(8)
b)	Write short notes on :	
	i) Access Protection.	(4)
(5)	ii) Interface	(4)

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4E2090/2012 (1)		[Contd	

4E	2090	(2)	
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