Roll No.

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4E 2090

B.Tech. IV Semester (Back) Examination, June/July - 2015
Electronic Inst. & Control Engg.

4E16.1 (Elective) Object Oriented Programming
(Common for Electronics & Comm. For BM, AI)

And EI & C Engg. Branch)

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 suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

Unit - I

- How does object oriented programming differs from procedure oriented 1. a) (8) programming What is object oriented programming define class? Object with example. (8) b) Explain the use of public, private & protected access specifier (8)1. a) (8) What is inheritance? Explain the types of inheritance in detail b) Unit - II What are the difference between constructors & destructors (8)2. a) What is a virtual function? Why do we need virtual functions? Explain (8)b) OR
- 2. a) What is operator overloading? State the rules to be followed for overloading operators (8)
 - b) What is friend function in C++? What are the risks associated with the use of friend function (8)

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3.	a)	Explain the Java applets with a suitable example		(8)
	b)	What is java define all the features of java .		(8)
		24 from the property of the Control		
3.	a)	Write a java program to find the factorial of a given no using recu	rsion	(8)
	b)	Explain the virtual machine? Also write the advantages of virtual n	nachin	e (8)
		Unit - IV		
4.	a)	Explain the following with suitable example i) Bit wise operator	'(4×	2=8)
		Allempt and fine questions, spiechte une passion fine		
	b)	Write a program in Java to sort a integer array		(0)
	0)	OR		(8)
4.	a)	Write a java program to find the sum of the following series		
		Sum= $1+x+x^2+x^3X^n$		(8)
	b)	Write a program in java to print series of Fibonacci number		(8)
		what is object oriented prog/V - tinU define class? Object with exa		(-)
5.	a)	Write the method to define the packages in java programs explain		(8)
	b)	What is the difference between abstract class? Interface		(8)
		What is inner more? Explain 190 es of inhemance in detail		(0)
5.	Wri	te short notes on:- (any two)		
	i)	Exception handling		
	ii)	packages access protection		
	iii)	Input & Output flags & formatting operations	(A × A-	-16)
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		What is operator overloading? State the rules to be followed for avoperators		
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