

Question Paper Code: 57251

B.E/B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016

Fourth Semester

Electrical and Electronic Engineering

CS 6456 - OBJECT ORIENTED PROGRAMMING

(Common to Electronics and Instrumentation Engineering, Instrumentation and Control Engineering)

(Regulations 2013)

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions. $PART - A (10 \times 2 = 20 \text{ Marks})$

- 1. What is object oriented programming?
- 2. Define data abstraction.
- Distinguish between class and object.
- 4. What is the use of destructor?
- 5. What is generic programming?
- 6. What is meant by exception?
- 7. What is byte code?
- 8. Java is robust. Comment.
- Distinguish between interface and class.
- 10. What is multithreading?

$PART - B (5 \times 16 = 80 Marks)$

11.	(a)	(i)	List out differences between procedure oriented programming and ob- oriented programming.	ject
		(ii)	Explain about pointers with an example.	(9 + 7)
			OR	
	(b)	(i)	Explain the characteristics of OOPs.	
		(ii)	Write a C++ program to list out prime numbers between the given	two
		()	limits.	(8 + 8)
			* Electrical and Clevinario Engineering	
12.	(a)	(i)	What are constructors? Explain the concept of destructor with an exam	
		(ii)	Explain array of objects with an example.	(8 + 8)
			OR	
	(b)	(i)	What is operator overloading? List out the rules to overload a bi	nary
			operator.	(7 ±:0)
		(ii)	Write a C++ program to add two vectors using + operator overloading.	(1117)
13.	(a)	(i)	What is Inheritance? List out the advantages of Inheritance.	
		(ii)	Write a C++ program to implement multiple inheritance.	(7 + 9)
			OR	
	(b)	(i)	Discuss about exception and its advantages.	
		(ii)	the adequate year input is	even
			number less than 100.	(5 + 11)
	(-)	7:5	List out the characteristics of JAVA.	
14.	(a)			(8 + 8)
		(ii)		19
			OR	onle
	(b)	(i)	Distinguish between instance methods and class methods with an example of the control of the con	
		(ii)	Implement a class Student. A Student has a name and a total quiz s Supply an appropriate constructor and methods getName(), addQu	
			score), getTotalScore() and getAverageScore(). To Compute the	

(6 + 10)

you also need to store the number of quizzes that the student took.

- 15. (a) (i) How to define an interface ? Why do the members of interface are static and final ?
 - (ii) Write a Java Program to implement nested packages.

(7 + 9)

OR

- (b) (i) Distinguish between arrays and strings.
 - (ii) Explain the methods available in the String Buffer class.
 - (iii) Explain the use of command line arguments with an example.

(3+5+8)

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