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## Question Paper Code: 40908

## B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018

Fourth Semester

Electrical and Electronics Engineering CS 6456 – OBJECT ORIENTED PROGRAMMING

(Electronics and Instrumentation Engineering/Instrumentation and Control
Engineering)

(Regulations 2013)

Time: Three Hours

Maximum: 100 Marks

## Answer ALL questions

PART - A

 $(10\times2=20 \text{ Marks})$ 

- 1. What is an object? Give example.
- 2. Define an abstract data type.
- 3. What is a member function?
- 4. Define polymorphism.
- 5. Outline the relationship between containers, iterators and algorithms.
- 6. Write the syntax for defining a function template.
- 7. What is a class? Give an example for a class in java.
- 8. Name the access modifiers in java.
- 9. Define a package in java and write the syntax to declare a package.
- 10. What is multithreading?

PART – B

(5×13=65 Marks)

11. a) Appraise the characteristics of object oriented programming languages.

(OR) (Alie 152 Line 2)

b) Compare the features of C++ and Java.

(13)

(13)

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12. a) Write a C++ program to a classes and member func	sort an array of 'n' numbers in ascer tions.	nding order. Use (13)
(OR)		
b) What is an iterator? Exp	lain with an example iterators in C-	++. (13)
	ine the need for templates in C++ an	
(OR)		
<ul><li>b) What is inheritance? Explain C++.</li></ul>	ain with an example the different type	es of inheritance (13)
14. a) Explain with an example t		(10)
(OR)	the control statements in Java.	(13)
b) Write a Java program to ac the result. Use classes and	ccept two matrices, multiply the mat I methods.	crices and print (13)
15. a) What is a java interface? example.	How to implement an interface? E	xplain with an (13)
(OR)		(10)
<ul><li>b) What is exception handling java.</li></ul>	g ? Explain with an example excepti	on handling in (13)
	PART – C	(1×15=15 Marks)
16. a) Write a C++ program to per	rform the following:	(15)
Define a class account to re	present a bank account. Include the	(15)
Data members:		Tonowing .
• Account number		
<ul> <li>Name of the depositor</li> </ul>	erena alla era Mara i cina	That will have a second
<ul><li>Type of account</li><li>Balance amount in the account</li></ul>	or water and a many hard on the course	from a Garbeit R
Member functions:		tak e jake a
<ul> <li>To assign initial values</li> </ul>		•,
• To deposit an amount	TO BAR	•
·	fter checking the balance	
• To display name and balar	nea	and the factor of the second o
(OR)	(40)	
	Allegar to the decision of the second section of the second section of the sectio	
by withe a Java program to so		
classes and methods.	rt an array of 'n' names in alphabet	ic order. Use (15)