Reg No.:			Name:	_
		SIXTH	APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY I SEMESTER B.TECH DEGREE EXAMINATION(R&S), MAY 2019	
			Course Code: EC312	
			Course Name: Object Oriented Programming	
M	ax. N	Marks: 100	D Duration: 3	Hours
			Answer any two full questions, each carries 15 marks	Marks
1	a)	Discuss t	the features and advantages of Object Oriented Programming.	(7)
	b)	Illustrate C++ prog	with a real life example how multi-level inheritance is implemented in grams.	(8)
2	a)	Identify any sugg	the error in the following $C++$ program segment. Give explanation. Give sestion to rectify the error.	(7)
		#include ·	<iostream.h></iostream.h>	
		class roor { intwidth,l void setva	n ength; alue(int w, 1)	
		{ width=w; }; void mair {	length=1} n()	
		classroom	ssroom; n.setvalue(12,13);	
	b)	} What is a	an object in a C++ program?	(4)
	c)	What is t	the need of an abstract base class? Give example.	(4)
3	a)	Explain t show dif	the use of constructors and destructors in a program. Write example to ferent constructors used in same class definition.	(7)
	b)	Write a p	program to show how to overload '+' operator	(8)
		i)	without friend function	
		ii)	with friend function	
			PART B Answer any two full questions, each carries 15 marks	
4	a)	How is p	oolymorphism achieved in C++ at	(7)
		i)	run time	

ii) compile time ?

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	b)	Explain different forms of inheritance in Java program. Write a program to illustrate single inheritance in Java	(8)
5	a)	When do we make a virtual function pure? Give example.	(7)
	b)	Write a Java program to display following on the screen 1 2 2 3 3 3 4 4 4 4	(8)
		(Upto <i>n</i> lines)	
6	a)	How can you create pointers to objects in C++? Explain how pointers can be used	(7)
		to access members of a class?	
	b)	Give the layers of interaction of a Java program and explain how Java achieve architecture neutrality?	(8)
		PART C	
7	a)	Explain the layered architecture of Android OS.	(10)
	b)	What are broadcast receivers and content providers? How are they implemented	(10)
		in an android program?	
8	a)	Explain any five features of Android OS.	(10)
	b)	What is an activity in Android? Explain activity life cycle diagram.	(10)
9	a)	Give the steps to develop a simple android application program.	(12)
	b)	What is the use of AndroidManifest.xml file in android?	(8)

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