D	B4D444	Pages: 2
Reg. No	o Name:	
	APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY FOURTH SEMESTER B.TECH DEGREE EXAMINATION, JUNE 2	2017
	Course Code: IT204 Course Name: OBJECT ORIENTED TECHNIQUES (IT)	
Max. N	Marks: 100 Durat	tion: 3 Hours
	PART A	
	Answer any 2 questions.	
1.		
a.	Differentiate between procedural oriented programming and object ori	
b.	programming? How polymorphism is implemented in C++?	(5) (5)
c.	Write a simple class Time with data members hour, minute and second	d and member
2.	functions SetValues() and ShowValues()	(5)
a.	How can we implement unary and binary operators? Illustrate with sar	-
b.	Comment on the statement "String is a primitive data type or not in C-	(6) ++? (3)
	What are the different type conversions? Illustrate with suitable conversions	rsion routines?
3.		(6)
a.	What are the applications of copy constructor and static constructor?	(5)
b. с.	List out the operators that cannot be overloaded? Explain default argument functions with example?	(4) (3)
	What is the difference between private data member and public data m	` '
	PART B	
	Answer any 2 questions.	
4.		
a.	Write short note on virtual base class? Illustarte with sample code? What is multiple inheritance? Discuss the syntax and rules of multiple	(5)
b.	C++.	(6)
c.	What is the application of function overriding?	(4)
5. a.	What are the differences between pointers to constants and constant po	
b.	Write a C++ program using pointer array to store 5 strings and display	(5) the strings?
υ.	The a C - program using pointer array to store 5 strings and display	(4)
c.	Mention the advantages of passing pointers as function arguments?	(3)

D		B4D444	Pages: 2		
6.	d.	What are the advantages of using new operators as compared to the functionalloc()?	on (3)		
0.	a.	Explain how base class member function can be invoked in a derived class			
	h	class also has a member function with same name.	(5)		
		What is the purpose of inheritance? Explain with examples. Write a C++ program to illustrate the use of new and delete operator.	(3)		
		What is dangling reference?	(4) (3)		
		PART C			
		Answer any 2 questions.			
7.					
	a.	What are friend functions? Explain the characteristics with a suitable exan	-		
			(5)		
	b.	Write a C++ program to copy the contents of one file to another file.	(5)		
	C.	What is pure virtual function? Why they are useful?	(5)		
8.	d.	What are the file pointer manipulating functions available in C++?	(5)		
0.	a.	a. Define a class template Queue with put() and get() operations. Using this create a			
	u.	Queue of integers in main() and add two elements to the queue.	(5)		
	b.	Implement exception handling for handling both when the queue is empty	\ /		
		the queue is full.	(5)		
	c.	Write short note on function template with sample code.	(5)		
9.	d.	Why we use multiple catch statements in exception handling?	(5)		
<i>)</i> .	a.	What are the various ways of handling exceptions?	(5)		
	b.	What is an abstract class? Declare an abstract class.	(5)		
	c.	Compare normal function and template function.	(5)		
	d.	Write a program to read and write a user defined class object to file.	(5)		

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