Reg. No.:					

00 Marks

Question Paper Code: 43804

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2019

Third Semester

Information Technology

14UIT304 - OBJECT ORIENTED PROGRAMMING

(Common to Computer Science and Engineering)

(Regulation 2014)

	(Regu	141011 2014)		
	Duration: Three hours		Maximum: 1	
	Answer A	ALL Questions		
	PART A - (1	$0 \times 1 = 10 \text{ Marks}$		
1.	Which feature in Object Oriented Program	mming allows reusing code?	•	
	(a) Polymorphism	(b) Encapsulation		
	(c) Inheritance	(d) Data hiding		
2. The principle helps the programmers to build secure				
	(a) Operator overloading	(b) Encapsulation		
	(c) Data hiding	(d) Polymorphism		
3. Which of the following gets called when an object goes out of scope?				
	(a) Constructor	(b) Destructor		
	(c) Main	(d) Virtual function		
4.	Constructor is executed when			
	(a) an object is created	(b) an object is used	d	
	(c) a class is declared	(d) an object goes of	out of scope	

5. The class which do not have static data members are known as

(b) template class

(c) local class

(d) formal class

(a) simple class

6.	What is a template?					
	(a) A template is a formula for cree(b) A template is used to manipul(c) A template is used for creating(d) None of the above mentioned	ate the class				
7.	Which of the following access specifi	er is useful only in inheritance?				
	(a) private(c) protected	(b) public(d) private and public				
8.	is used to achieve run time polymorphism					
	(a) operator overloading(c) virtual function	(b) function overloading(d) virtual base class				
9.	Which header file is used for reading	and writing to a file?				
	(a) #include<iostream></iostream>(c) #include<file></file>	<pre>(b) #include<fstream> (d) #include<conio></conio></fstream></pre>				
10.	. What is meant by standard C++ librar	y?				
	(a) It is the collection of class de algorithms(b) It is a header file(c) Both (a) and (b)(d) None of these	finitions for standard data structures and a collection of				
	PART -	B (5 x $2 = 10 \text{ Marks}$)				
11.	. Differentiate Procedural programming	g and Object Oriented programming.				
12.	. How does constructor differ from nor	mal functions.?				
13.	. Mention the tasks performed by excep	ption handling.				
14.	. Define pure virtual functions.					
15.	. What is the use of namespace? How i	t is declared and used in a C++ program?				
	PART - 0	$C (5 \times 16 = 80 \text{ Marks})$				
16.	. (a) Explain the major principles of O diagram.	bject Oriented programming with illustrations and neat (16)				

	(b)	(i)	What is friend function? What is the use of using friend functions in c++? Exwith a program.	plain (8)
		(ii)	What are the relationships between outer and inner classes? Give an example.	(8)
17.	(a)	_	plain the different types of constructors that are available in C++ with suitamples.	table (16)
			Or	
	(b)	(i)	Write a C++ program to illustrate the use of overloading assignment operator.	(8)
		(ii)	Write a C++ program to calculate the factorial of a given number using constructor.	copy (8)
18.			nat is an exception? How it is handled in C++ programs? Explain how the control sferred when exceptions occur during programs execution. Write a program to	lis
		illu	strate exception handling. Or	(16)
	(b)	(i)		(4)
	(D)	(1)	Explain how rethrowing of an exception is done.	(4)
		(ii)	Write a C++ program that illustrates multiple catch statements.	(12)
19.	(a)	(i)	Demonstrate runtime polymorphism with an example.	(8)
		(ii)	Write short notes on RTTI and down casting.	(8)
			Or	
	(b)	Dis	scuss the different types of inheritance supported in C++ with suitable illustra	ition. (16)
20.	(a)	Exp	plain the features of Formatted console I/O system supported in C++.	(16)
			Or	
	(b)	(i)	Explain namespace with example.	(8)
		(ii)	Write a C++ to count number of words in a text file named "OUT.TXT".	(8)