P P SAVANI UNIVERSITY

Second Semester of B. Tech. Examination
May 2019
SECE1030 Object Oriented Programming with C++
Time: 12:30 p.m. To 03:00 p.m.

27.05.2019, Monday

Maximum Marks: 60

	Instruct	ions:	
		question paper comprises of two sections.	(2)
	2. Secti	on I and II must be attempted in separate answer sheets.	
	3. Make	e suitable assumptions and draw neat figures wherever required.	
	4. Use o	of scientific calculator is allowed.	
		and would	
		CECTION	
	Q-1	Answer the following. (Any Five)	
	(i)	C++ language is case	[05]
	(ii)		
	(iii)	A is a sequence of characters surrounded by double quotes.	
	(iv)	The smallest individual unit of a program is called Can you use destructor in your program?	
	(v)	What is formal argument?	
	(vi)	What is the company of interest of the company of t	
1	(vii)	What is the syntax of inheritance of class?	
	Q-2(a)	How many types of inheritance are there in C++?	
	Q-2(b)	Explain briefly characteristic of OOP language and mention advantages of OOP.	[05]
	Q-2 (b)	Explain function overriding with an example.	[05]
	0.2(-)	OR	[col
	Q-2(a)	Explain function overloading with an example.	[05]
	Q-2(b)	What is meant by access modifiers? Explain all modifiers.	[05]
	Q-3(a)	Define constructor. Explain various types of constructors with example	[05]
	Q-3(b)	What is inline function? When will you make inline function?	-
			[05]
		OR	
	Q-3(a)	Explain operator overloading in C++.	
	Q-3(b)	What is Encapsulation? Explain with an example.	[05]
	Q-4	Attempt any one.	[05]
	(i)		[05]
		Using the concept of function overloading write a program to find the maximum of three integer numbers.	
	(ii)	g	
	` '	CDCTTON	
	0-1	Answer the following. (Any Five)	
	(i)	What is a static member?	[05]
	(ii)		
	(iii)	What is the index number of the last element of an array with 9 elements?	
	(iv)	What is template class?	
	(v)	What is the use of Namespace?	
		Can we declare a member function private?	
	(vi)	Write types of errors in C++.	
	(vii)	What is user defined functions?	
	Q-2(a)	What are different forms of Inheritance? Give an example for each.	[OF]
	Q-2(b)	Write a program to find factorial of a number.	[05]
		OR	[05]
	Q-2(a)	Explain call by value and call by reference with an example.	[OF]
		P.O.	[05]

Q-2(b)	Write a program to overload unary increment (++) operator.	[05]
Q-3(a)	What is friend function? Explain the need of using friend function?	[05]
Q-3(b)	What are pure virtual functions in C++? Give an example.	[05]
	OR	[00]
Q-3(a)	Explain runtime polymorphism with an example.	[05]
Q-3(b)	Write a short note on exception handling.	[05]
Q-4	Attempt any One.	[05]
(i)	Write a program to check whether a character is a vowel or constant.	[03]
(ii)	Write a program to Demonstrate hybrid Inheritances.	
