Third Semester B.E. Degree Examination, Dec.2017/Jan.2018 Object Oriented Programming with C+

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

		PART – A	
1	a.	Explain basic data types available in C++, briefly with examples. (05 Mai	rks)
1	b.	What is inline function? Mention its advantages and also write a program to find cube of	
	0.	given number. (05 Mar	
	c.	What is function overloading? Write a C++ program to find area of circle, triangle	
		rectangle by overloading the function area. (05 Ma)	
	d.	Explain reference variable in C++. Also write a program to swap values of two gi	ven
		variables using reference variables. (05 Mar	
2	a.	Explain how to achieve data hiding and encapsulation in C++, with suitable program.	
		(08 Ma)	,
	b.	What are constructor and destructor? Can you overload constructor and destructor? Jus	
		with suitable example. (08 Ma	
	c.	Explain static data member of a class. Also write a program to count the number of objective and the static data member of a class.	
		created. (04 Mai	rks)
2		What is first formation? White a formation friend function swen to exchange	the
3	a.	What is friend function? Write a program using bridge friend function swap to exchange values of two variables and also display the result before and after swapping. (10 Ma)	rke)
	h	Write a C++ program to add two complex numbers by overloading the operator + us	
	b.	member function. (05 Ma)	
	c.	What is template function? Write a program using template function large to find the large	
	С.	of three ints and three double numbers. (05 Ma	
		Of this did this did this	
4	a.	How to achieve reusability in C++? Illustrate with an example. (10 Ma	
	b.	Explain the differences between the three visibility modes, with suitable example. (10 Ma	rks) [*]
		PART - B	
5	a.	Explain how to pass arguments to base class constructors in multiple inheritance, v	vith
		suitable example. (10 Ma	rks)
	b.	Explain with the suitable diagram and program the virtual base class. (10 Ma	rks)
		(41) · · · · · · · · · · · · · · · · · · ·	
6	a.	What is runtime polymorphism? How to achieve it? Illustrate with an example program.	لمعام
	1	Explain pure virtual function and abstract class with suitable programs. (10 Ma)	
	b.	Explain pure virtual function and abstract class with suitable programs.	I KS)
7	0	Explain with the neat diagram, the stream class hierarchy. (07 Ma)	rke)
/	a. b.	Explain any five manipulators with example (06 Ma	
		Explain briefly various file operations (07 Ma)	-
	c.	BANGALORE - 560 037	,
8	a.	What is exception? Explain briefly exception handling options. (10 Ma	rks)
J	b.	What is STL? Explain vector container briefly. (10 Ma)	

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.