## SUBJECT CODE NO:- P-374 FACULTY OF ENGINEERING AND TECHNOLOGY S.E. (CSE/IT) Examination May/June 2017 Object Oriented Programming Using C++ (Revised)

[Time: Three Hours]		lax.Marks:80]
	Please check whether you have got the right question paper.	
N.B	i) Q.No.1 and Q.No.6 are compulsory.	
	ii) Solve any two from each section	56,00,00,
	Section A	5 10 No.
		5, 12,
Q.1	Solve the five	2*5=10
	a. What is the use of scope resolution operator (::) in C++?	
	b. What are the operators of C++ that cannot be overloaded?	
	c. How does constructor differ from normal functions?	
	d. What is the default access mode for class members?	
	e. What do you mean by cascading of I/O operators?	
	f. What is the structure of C++ program?	
	g. What will be the output of the following code?	
	For(int m=0; m<5; m++)	
	Cout << m;	
	h. what does the following poop prints out?	
	int m=1;	
	While(m<11)	
	m++;	
	cout< <m++;< td=""><td></td></m++;<>	
Q.2	a. Define a class STRING. Overload + operator to concatenate two strings.	08
	b. Write a C++ program to create a class circle having data members radious, member functions to	
	i) read radious, ii) to calculate & display area iii) to calculate & display circumference. Create two	)
	objects of class:	4-
Q.3	Explain object-oriented paradigm with all its essential elements	15
Q.4	a. What is friend function? Explain with example.	08
SEP Y	b. Explain function overloading with programming example.	07
Q.5	Explain the type conversions in C++, with example.	15
	Section B	2*5 40
Q.6	Solve any five	2*5=10
3 6 6	a. What is an I/O stream	
7789 E	b. what is the type of class for which objects cannot be created?	
	c. How to open and close file?	
	d. What is gereric classes in templates?	
	e. What is enatainer?	
	f. What is the difference between private and protected class members?	
	g. What is the difference between private and protected class members? h. What do you mean by function? What is the prototype of function?	
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Q.7	a. What do you mean inheritance & containership in C++? Explain	08
	b. What is stream manipulators? Discuss setw(), setfill(), setprecision()	07
Q.8	a. What is file mode? Discuss the various file mode options available in C++	08
	b. What is polymorphism? What are the advantage of using it? Differentiate between compile time & runtime polymorphism with example.	07
Q.9	a. Explain throwing & Catching mechanism.	08
	b. What do you mean by abstract class? Explain with example.	07
Q.10	Write a program to create a class STUDENT having data member roll no. Create classes TEST & SPORTS from class student having data member marks of two test & sports score respectively. All three classes contain functions. i) to set values of data members ii) to display values of data members. Create class RESULT from Class test & sport having data member total & member function to calculate total, display all information of student. Create one object of class result & call proper functions.	15