Total No. of sheet used	:	01 Total No. of Questions: 09
Subject	:	Object Oriented Programming using C++
Class	:	BCA 3 rd Semester
Paper		BCA-215
Title of Paper	:	Object Oriented Programming using C++

Title of Paper Time Allowed : 3 Hours

Maximum Marks: 75

Note: Candidates are required to attempt five questions in all selecting at least two questions each from sections A and B. Section C is compulsory.

	SECTION A	
Q1.	Explain the various characteristics of object oriented programming languages. Discuss in detail various advantages and disadvantages of object oriented	15
	programming languages.	15
Q2.	What is a pointer variable? What are the applications of pointer variable? What are its advantages and disadvantages? What operations can be performed on pointer variables? What are basic data and derived data types which can be	13
01	expressed in pointer variables? Differentiate between an iterative function and a recursive function. Explain	15
Q3.	with examples. Which one will you prefer to use in which circumstances?	
Q4.	Explain the concept of class in C++. What is its importance? How do you	15
Q4.	declare a class in C++? Explain with examples. Explain the concept of data	
	members and member functions in a class?	
	SECTION B	
Q5.	What is the purpose of friend functions and friend classes? Explain with the	15
	help of suitable examples.	
Q6.	What is a default constructor? What is its significance? In what way it is equivalent to a constructor having default arguments? What are various types	15
	of default constructors? Explain with examples.	15
Q7.	What do you mean by operator overloading? Which operators cannot be overloaded? How can we overload unary and binary operators? Explain	13
	giving suitable examples.	15
Q8.	Write a program in C++ to demonstrate the difference between compile time	13
	and run time polymorphism.	
	SECTION C	03
Q9.	a) What are conditional operators?	03
	b) What is function overloading?	03
	c) What is the use THIS pointer?	03
	d) What are the merits and demerits of dynamic memory allocation?	03
	e) What is a destructor? What is its significance?	05