CBCS Scheme: 2017-18

MODEL QUESTION PAPER

15 BM/EI/ML 63

Sixth Semester B.E. Degree Examinations

OOPS with C++

Time: 3 Hrs   Max. Marks: 80

Note: Answer FIVE FULL Questions, selecting ONE FULL Question from each Module

Question Number	Question	Marks Allotted
	Module -1	
1	a) Discuss the data types in C++ programming.	8M
	b) Explain method of passing arguments to functions and returning values from functions.	8M
2	a) Discuss the characteristics of Object Oriented languages.	8M
	b) Explain the method of passing simple data types to functions by reference.	8M
	Module -2	
3	a) Explain the specification of class, and using objects as function arguments.	8M
	b) Explain passing arrays to functions and arrays as objects.	8M
4	a) Explain constructors and destructors. Give an example of overloaded constructor.	8M
	b) With example, explain friend function and friend class.	8M
	Module -3	
5	a) Explain the method of copying a string in hard and easier approaches.	8M
	b) Explain accessing member data and returning values using	

		"this" pointer.	8M
6	a)	Explain array of pointers to objects and accessing member functions using pointers.	8M
	b)	Discuss the memory management using keywords 'new' and 'delete'.	8M
		Module -4	
7	a)	Explain with example, overloading of unary operator '+'.	8M
	b)	With example, explain the overriding member functions and scope resolution with overridden functions.	8M
8	a)	Explain with example overloading of comparison operators.	6M
	b)	Explain public and private inheritance with example.	6M
	c)	Explain multiple inheritance.	4M
		Module -5	
9	a)	With example, explain virtual functions are hierarchical.	8M
	b)	Define generic function. Explain application of generic functions for compacting an array.	8M
10	a)	Define virtual functions. Explain method of calling a virtual function through a base class reference.	8M
	b)	Discuss fundamentals of Exception handling.	8M