[Maximum Marks: 50

## Bachelor of Science (B.Sc.I.T.) Semester—II (C.B.S.) Examination OBJECT ORIENTED PROGRAMMING USING "C++"

## Paper—II

Time: Three Hours]

N.B	. :—	(1) <b>All</b> questions are compulsory and carry equal marks.	
		(2) Draw neat and labeled diagram wherever necessary.	
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1.	(a)	List different features of object oriented programming and explain any two.	5
	(b)	Write a program to implement class "Account" having following members:	
		Data member – Name of Account holder,	
		Account Number,	
		Balance Amount	
		Member function – get data ( )	
		deposit ( )	
		withdrawal ( )	
		put data ( ).	5
	OR		
	(c)	Explain the following access specifiers with example:	
		(i) Private	
		(ii) Public.	5
	(d)	Explain static data member giving suitable program.	5
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2.	(a)	What is operator overloading? Explain overloading of binary operator giving suitable program	m. 5
	(b)	Explain parameterised constructor giving suitable program.	5
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## OR

	(c)	List rules for operator overloading. List the operators that cannot be overloaded.	5
	(d)	Write a program to demonstrate use of constructor and destructor.	5
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3.	(a)	Explain multiple inheritance giving suitable program.	5
	(b)	Explain the order of execution of constructors and destructors in derived classes giving sprogram in 'C++'.	suitable 5
	OR		
	(c)	Explain new and delete operator giving suitable program.	5
	(d)	How "this pointer" is used in programming? Explain giving suitable program.	5
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4.	(a)	What do you mean by virtual function? List rules for creating virtual functions.	5
	(b)	Explain Exception handling model giving suitable program. Write rules for handling exceptions successfully.	ception 5
	OR		
	(c)	Why is there a need for pure virtual function? Explain with suitable example.	5
	(d)	Write short note on abstract classes.	5
5.	(a)	Differentiate between:	
		(i) Defining member function inside the class and,	
		(ii) Defining member function outside the class.	21/2
	(b)	Explain copy constructor giving a suitable program.	21/2
	(c)	What is Inheritance ? Explain its advantages.	21/2
	(d)	Explain handling of uncaught exceptions.	21/2

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