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

Paper—II

Time: Three Hours] [Maxim			num Marks: 50	
Not		(1) All questions are compulsory and carry equal marks.(2) Draw neat and labelled diagram wherever necessary.		
		THER	_	
1.		Explain the features of Object Oriented Programming.	5	
		Write a program in C++ to find whether an entered number is prime or not.	5	
	OR			
	(C)	Explain the following access specifiers:		
		(i) Private		
		(ii) Public	_	
	(D)	(iii) Protected.	5	
	(D)	What are inline functions? How will you make a member function defined outside		
	ETT	inline ? THER	5	
2.		What is a constructor ? Explain copy constructor with the help of example.	5	
2.		Discuss the rules for overloading an operator. List the operators which can not be o		
	(D)	Discuss the fules for overloading an operator. List the operators which can not be o	5 5	
	OR		3	
		What is parameterized constructor? Write a program to illustrate parameterized con-	nstructor.	
	(0)	The a program to mastate parameterized constructor.	5	
	(D)	Discuss the significance of destructors in brief. Explain the difference between const		
	(-)	destructor.	5	
	EIT	THER		
3.	(A)	Explain pointer to objects. Illustrate with a suitable example.	5	
	, ,	What is array of objects? Explain with a program illustrating array of objects.	5	
	OR			
	(C)	What is Inheritance? Explain its types and examples.	5	
	(D)	Write a program to demonstrate multiple Inheritance. Declare class M and N and deriv	e publiclly	
		class P from M and N.	5	
	EIT	THER		
4.	(A)	What are virtual functions? Explain the rules to program a virtual function.	5	
	(B)	What is Exception handling? Explain list of exceptions.	5	
	OR			
	(C)	What are abstract classes? How will you use a constructor in derived class? Illustra	ite with an	
		example.	5	
	(D)	What is a friend function ? Explain the merits and demerits of using friend function	n. Explain	
		put () and get () function.	5	
5.		empt all:		
		Explain classes and objects.	2½	
	(B)	1	2½	
		Explain new and delete operators.	2½	
	(D)	What are pure virtual functions? Give example.	$2\frac{1}{2}$	