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

## Paper—II

Tin	ne : T	Three Hours [Maximum Mark	[Maximum Marks : 50	
	N.B	3.:— (1) All questions are compulsory and carry equal marks. (2) Draw neat and labelled diagrams wherever necessary.		
	EIT	THER		
1.	(a)	What is Class? How can we define member function outside the class?	5	
	(b)	What are access specifiers? Why are they needed?	5	
	OR			
	(c)	Write a short note on static data members.	5	
	(d)	What are the features of OOPs ?	5	
	EIT	THER		
2.	(a)	What are the rules for operator overloading?	5	
	(b)	Explain the concept of multiple constructor in a class with example.	5	
	OR			
	(c)	Explain binary operator overloading with an example.	5	
	(d)	What is a constructor ? Explain parameterized constructors with example.	5	
	EIT	THER		
3.	(a)	What is the use of new and delete operator? Explain with example.	5	
	(b)	Explain the concept of this pointer. Write a sample program to illustrate the use.	5	
	OR			
	(c)	What is inheritance? Explain multiple inheritance with example.	5	
	(d)	How can we create an array of objects ? Give an example.	5	
	EIT	THER		
4.	(a)	What is virtual function ? How does it differ from pure virtual function ?	5	
	(b)	Explain the use of try and catch block with example.	5	
	OR			
	(c)	Write a program to raise exception if an attempt is made to perform division by zero.	5	
	(d)	What is abstract class? Why it is needed?	5	
5.	Atte	empt all:		
	(a)	Explain types of member functions.	21/2	
	(b)	Explain the order of construction and destruction while creating a derived object.	21/2	
	(c)	Explain single inheritance with suitable example.	21/2	
	(d)	Give any two examples of predefined exceptions.	21/2	