11. (a)	What is the need for template function in C	++ ?	NTK/KW/15/7438			
	What are their advantages ?	7	Faculty of Engineering and Technology			
(b)	What is the need for exception handling?	6	Fifth Semester B.E. (Computer Science Engg.)			
	OR		(C.B.S.) Examination			
12. (a)	a) When do we need multiple catch blocks for a si		OBJECT ORIENTED PROGRAMMING			
	Try block? Give an example.	7	Time: Three Hours] [Maximum Marks: 80			
(b)	Explain the function Template.	6	INSTRUCTIONS TO CANDIDATES			
			(1) All questions carry marks as indicated.			
			(2) Solve SIX questions as follows:			
			Que. No. 1 OR Que. No. 2			
			Que. No. 3 OR Que. No. 4			
			Que. No. 5 OR Que. No. 6			
			Que. No. 7 OR Que. No. 8			
			Que. No. 9 OR Que. No. 10			
			Que. No. 11 OR Que. No. 12			
			(3) Due credit will be given to neatness and adequate dimensions.			
			(4) Illustrate the answers with necessary figures/drawings wherever necessary.			
			(5) Assume suitable data wherever necessary.			
MVM—47	7098 4	3250	MVM—47098 1 (Contd.)			

1.	(a)	Explain the basic concept of Object Orion Programming.	ented 8	6.	(a)	Describe pure virtual function with an example.
	(b)	What is the difference between a local variable	e and		(b)	Write a C++ program using this pointer. 6
		a Data member ?	6	7.	(a)	What is Static function and Dynamic type
		OR				information ? 7
2.	(a)	Explain copy constructors with an example.	8		(b)	Explain Abstract class with an example. 6
	(b)	Write a C++ program that :				OR
		(i) Calculates and prints the sum of the int	egers	8.	(a)	What are the types of Polymorphism?
		from 1 to 10.	C		(b)	Explain the concept of containership with
		(ii) To calculate x raised to the power y.	6			example. 6
3.	(a)	What is operator overloading? Explain with exam	mple	9.	(a)	What are streams? Why they are useful? 7
	(4)		7		(b)	What is manipulator? Differentiate between manipulator and lash functions. 6
	(b)	What are the difference between pointer to cor	ıstant			OR
		and constant to pointer?	6	10	()	
		OR		10.	(a)	Explain about formatted and unformatted IO with suitable example.
4.	(a)	Explain the New and Delete operators in C++			(b)	Explain the role of :
			7			(i) seekg ()
	(b)	Explain Pitfalls of operator overloading.	6			(ii) seekp ()
5.	(a)	Explain different types of Inheritances.	8			
	(b)	b) Explain function overloading with an example.				(iii) tellg ()
			6			(iv) tellp () function in the process of Random
		OR				access in binary file. 6
MVI	M—41		ontd.)	MVI	M—41	7098 3 (Contd.)