11.	(a)	What is the need for template function in C++ What are their advantages ?		
	(b)	What is the need for exception handling ?	6	
		OR		
12.	12. (a) When do we need multiple catch blocks for a			
		Try block ? Give an example.	7	
	(b)	Explain the function Template.	6	

NTK/KW/15/7438

	1	Faculty of Engineering and Technology			
dling ?	6	Fifth Semester B.E. (Computer Science Engg.) (C.B.S.) Examination			
cks for a single		OBJECT OR	OBJECT ORIENTED PROGRAMMING		
	7	Time : Three Hours]	[Maximum Marks : 80		
	6	INSTRUCTIONS TO CANDIDATES			
		(1) All questions carry marks as indicate			
		(2) Solve SIX q	uestions as follows :		
		Que. No. 1	OR Que. No. 2		
		Que. No. 3	OR Que. No. 4		
	C	Que. No. 5	OR Que. No. 6		
	13	Que. No. 7	OR Que. No. 8		
	NN.SC	Que. No. 9	OR Que. No. 10		
2		Que. No. 11	OR Que. No. 12		
		(3) Due credit v dimensions.	vill be given to neatness and adequate		
		(4) Illustrate the wherever new	answers with necessary figures/drawings cessary.		

(5) Assume suitable data wherever necessary.

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MVM-47098

4

MVM—47098

(Contd.)

- 1. (a) Explain the basic concept of Object Oriented Programming. 8
 - (b) What is the difference between a local variable and a Data member ?

OR

- 2. (a) Explain copy constructors with an example. 8
 - (b) Write a C++ program that :
 - (i) Calculates and prints the sum of the integers from 1 to 10.
 - (ii) To calculate x raised to the power y. 6
- 3. (a) What is operator overloading ? Explain with example.
 - (b) What are the difference between pointer to constant and constant to pointer ? 6

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6

8

6

(Contd.)

OR

- 4. (a) Explain the New and Delete operators in C++.
 - (b) Explain Pitfalls of operator overloading.
- 5. (a) Explain different types of Inheritances.
 - (b) Explain function overloading with an example.
- OR MVM—47098 2

- (a) Describe pure virtual function with an example. 6. 8 (b) Write a C++ program using this pointer. 6 What is Static function and Dynamic type 7. (a) information ? 7 (b) Explain Abstract class with an example. 6 OR (a) What are the types of Polymorphism ? 7 8. (b) Explain the concept of containership with example. 6 What are streams ? Why they are useful ? (a) 7 What is manipulator ? Differentiate between (b) manipulator and lash functions. 6 OR Explain about formatted and unformatted IO with 10. (a) suitable example. 7 Explain the role of : (b) seekg () (i) seekp () (ii) tellg () (iii)
 - (iv) tellp () function in the process of Random access in binary file. 6

3

MVM—47098

(Contd.)