(5-02/6) L-1879

### BCA/M-22

1879

P.T.O.

## COMPUTER APPLICATIONS .

# Advanced Programming using C++ BCA-242

Tin	ne : 7	Three Hours] [Maximum Marks: 80	[Maximum Maṛks : 80	
No	te :	Attempt <i>Five</i> questions in all. Q. No. 1 is compulsory Attempt <i>four</i> questions by selecting <i>one</i> question from each Section.		
1.	(a)	Explain virtual destructors.	1	
	(b)	Define inheritance and its access specifiers.	1	
	(c)	Explain the role of constructors in Inheritance with	1	
		example.	1	
	(d)	Explain need of templates in C++.	1	
		· Section I		
2.	(a)	Explain various types of polymorphism in detail.	3	
	(b)	What is virtual function ? Explain its need an	d	
		rules for virtual functions.	8	
3.	(a)	Explain abstract class with examples.	8	
	(b)	What is a constructor ? Explain its characteristic	S	
		and types in C++.	8	

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#### Section II

4.	Explain super-class and sub-class with suitable	example.
	What are the implications of private, public and	protected
	access specifiers ?	16

5. What is protected access specifier? How do you make protected member inheritable?

#### Section III

- What is function template and its need? Also explain overloading of template functions and function templates with multiple parameters.
- 7. Explain different forms of inheritance with suitable examples.

#### **Section IV**

- 8. Explain exception with suitable examples. Explain various ways and mechanism to handle exceptions in C++. 16
- What is a file and how to declare it? Explain two methods to open a file with examples. Also explain method of detecting end of file.