Roll No	Koll NO
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Total Pages: 02

BCA/M-22

1879

COMPUTER APPLICATIONS Advanced Programming using C++ BCA-242

lın	ne: Th	hree Hours] [Maximum Marks:	80
Not	te: A	Attempt Five questions in all. Q. No. 1 is compulso	ry.
	· A	Attempt four questions by selecting one question fr	om
		each Section.	
1.	(a)	Explain virtual destructors.	4
	(b)	Define inheritance and its access specifiers.	4
	(c)	Explain the role of constructors in Inheritance w	ith
		example. TOPPERWorld	4
	(d)	Explain need of templates in C++.	4
		Section I	
2.	(a)	Explain various types of polymorphism in detail	l. 8
	(b)	What is virtual function ? Explain its need a	and
		rules for virtual functions.	8
3.	(a)	Explain abstract class with examples.	8
	(b)	What is a constructor ? Explain its characteris	tics
		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

- 6. What is function template and its need? Also explain overloading of template functions and function templates with multiple parameters.

 16
- 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.