BCA/M-23

1871

ADVANCED PROGRAMMING USING C++ BCA-242

Time: Three Hours [Maximum Marks: 80]

Note: Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

(Compulsory Question)

- 1. (a) What are the rules for creating virtual functions?
 - (b) Design a template to find sum of an array. 3
 - (c) What is the meaning of the following statement:

 fp = fopen ("abc.x", wb+)?

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 - (d) When do we use multiple exception handelers ?3
 - (e) How eof() function detects end of file?
 - (f) Explain syntax for float to int typeconversion using typecasting.

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- 2. (a) What are abstract class? Why are abstract classes needed?
 - (b) How run time polymorphism is achieved? Explain with an example.

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J.	Wr	ite notes on the following:	
	(a)	Virtual class ·	8
-	(b)	'This' pointer.	8
		Unit II	
4.	(a)	When do we use the protected visibility specifie	er to
		a class member ?	8
	(b)	What is an operator function? Explain with	an
		example.	8
5.	Exp	lain with example:	
	(a)	Basic data to class data type conversion	8
	(b)	One class to another class type conversion.	8
		Unit III	
6.	Writ	te syntax of the following:	
	(a)	Multilevel Inheritance	8
	(b)	Hybrid Inheritance.	8
7.	Diff	erentiate between the following:	
	(a)	Containership and inheritance	8
	(b)	A template and a macro.	8
		Unit IV	
8.	(a)	What is the difference between opening a file wi	th:
		(i) using a constructor	
		(ii) using open() function,	8
L-1871		3	

	(b)	What are the advantages of using exception handl	ing	
•		mechanism in a program?	8	
9.	Differentiate between the following:			
	(a)	a text stream and a binary stream	8	
	(b)	seekg() and seekp() file pointer manipulators.	8	