Roll No. 180119806

Total Pages: 03

10502

MCA/M-19

OBJECT ORIENTED PROGRAMMING USING C++

MCA-14-22

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all. Q. No. 1 is compulsory. Attempt four more questions selecting one question from each Unit.

- Answer the following questions in brief: 1.
 - What are manipulators in C++? Explain any three (a) in C++.
 - Explain the rules of automatic type conversions in (b) C++.
 - (c) What is Destructor? Why can't you overload it?
 - Explain catch all exception handler with an example. (d)

 4×4

Unit-I

Explain static data member, member selection 2. (a) operators and read only objects with suitable examples. 8

		directives and suitable examples.	7
	(b)	Explain the purpose of classes in hierarchy	
		console stream classes.	2
		Unit'II	
4.	Exp	lain the overloading of the following operators wi	tŀ
	suita	ible examples :	
	(a)	Arithmetic * operator .	8
	(b)	New and delete operators.	8
-	(-)		
5.	(a)	What is Friend function? Explain its need with	3
		suitable example.	8
	(b)	How can you convert basic type into object types	-
		Explain with an example.	8
		Unit III	
6.	(a)	How can you cast base class pointer to derive	20
		class pointer? Explain with a suitable example.	8
	(b)	What is multilevel inheritance? Give an example	le
		and implement it in C++.	8

What are dynamic objects? How can you create

Explain local class, nested class and preprocessor

them? Explain with an example.

(b)

3. (a)

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7.	(a)	What is virtual function? Explain its need w	ith a
		suitable example.	8
	(b)	What is virtual derivation ? Explain with	ı an
		example.	8
		Unit I-V	
8.	(a)	What is template function? How can you over	rload
		it ? Give an example.	8
	(b)	How can you open, close and test for errors v	vhile
		handling files ?	8
9.	Write	e short notes on the following:	
	(a)	File pointers	8
	(b)	Reading and writing random access file.	8