MCA-2 OOPC++

Set-2

第89

Full Marks: 70

Time: 3 hours

Answer Q. No. 1, which is compulsory and any five of the rest questions

The figures in the right-hand margin indicate marks

1. Answer the following:

 2×10

- (a) The ability of a function to act in different ways on different data types is called function
- (b) What will be the output of the following codes:

X = 6; cout << x << x ++ << ++ x;

(c) Find errors, if any, in the given function prototypes void display (float mark[], size = 20);

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no body of function display.

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3.	class and an abstract class.	
	(b) Discuss the basic use of virtual class. 5	e
4.	to find our simple littlest	
	(b) Discuss the different types of inheritance. 5	
5.	(a) Write a program using operator over- loading to find out the summation of complex numbers.	5
	(b) Define prototypes and linkages.	5
6	numbers from keyboard and a function to calculate the division of these two numbers. A try block to throw an exception when a wrong type of data is entered and another try block to throw an exception if the condition "division occurs". Appropriate catch block to handle the exceptions thrown.	5
	the exceptions unown.	

	(0)	When do we use multiple catch handlers?	
		What will happen several handlers match	
~	ald	the type of exception thrown? only 1st	5
7.	(a)	Distinguish between overloaded functions	
		and function templates. Func of	5
	(b)	What is generic programming? How is it	
		implemented in C++?	5
	(a)	What is meant by software development	
		method? Explain in details.	5
	*(b)	What do you mean by analysis and design?	
		What are the steps involved in designing?	5

(Continued)

when we need only one copy of that number for the either dang when it (d) When do we declare a member of a class static? is common to class How is dynamic initialization of objects construct) What is the output of the following program. Explain your answer. #include<iostream.h> class some{ public: ~ some() cout << "some's destructor" << endl; allith his so or nother that the officer add. In }; bulled a convictable constitute and some void main() some's destructor process destructor process destructor some s: s.~some(); class is one that is not used to create objects.

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MCA-2/OOPC++ (Set-2)

(h) Virtual functions are used to create pointer to base class. Dinamic object

can be used without using its constructor.

(i) What are the different blocks used in exception handling?

2. (a) Write a program to find out the 2nd largest and 2nd smallest number in an array of n numbers.

(b) Create a class called Volume that uses three data members of type distance to model the volume of a room and initialize a variable of type Volume to specific dimensions, then calculate the volume it represents and print out the result. To calculate the volume, convert each dimension from a distance variable to a variable of type float representing feet and fractions of a foot, and then multiply the resulting three numbers.

MCA-2/00PG++ (Sd-2) 2. distance by

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