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Roll No.

MCA (Sem.-1ST) **OBJECT ORIENTED PROGRAMMING IN C++**

Subject Code: MCA-102

Paper ID: B0129

Time: 3 Hrs.

NOTE: Candidates are required to attempt one question from each section A, B, C, D and the entire section E.

SECTION - A

Q1	What	is object? How it is different from a class? Explain various advantages of	of OOP	
	appro	ach over function approach.	20	
Q2	a) What is implicit and explicit type conversion? Write C++ program to support			
		answer.	10	
	b)	What are the character and symbolic constants? Discuss its need in C++	10	
		SECTION - B		
Q3	What is an array? Write a C++ program to explain how an array is passed as an argument to			
	functi	ion.	20	
Q4	Write notes on the following:-			
	a)	Passing structure to a function in C++	10	
			10	
		SECTION - C		
Q5	What is constructor? How it is different from destructor? Explain how default and copy			
	const	ructors are implemented in C++.	20	
Q6	What is public and private inheritance? Explain how various types of inheritances are			
	imple	emented in C++.	20	
		SECTION		
Q7	Explain the following:-			
	a)	What is binary operator overloading? Explain how relational operators are over	rloaded	
		in C++?	10	

Explain how exceptions are handled using Try-Catch block? 10 b)

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Total No. of Pages: 02 Total No. of Questions: 09

Max. Marks:100

Q8	a)	Write a C++ program that reads a text file and count the number of vowel			
		present in it.	10		
	b)	What is pure virtual function? Discuss its characteristics.	10		
SECTION - E					
Q9	(i)	List various features of iostream.h and iomanip.h header files.	02		
	(ii)	List various rules for operator overloading.	02		
	(iii)	What are different properties of private and protected variable?	02		
	(iv)	Define virtual destructor.	02		
	(v)	How while loop is different from do-while loop?	02		
	(vi)	What is use of static functions in C++?	02		
	(vii)	What is operator precedence in C++?	02		
	(viii)	List various features of pointers.	02		
	(ix)	How exceptions are handled in C++?	02		

(x) How static data member is defined in C++? 02

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