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Code No: A10508

MLR INSTITUTE OF TECHNOLOGY

(An Autonomous Institution) II B.Tech I Semester Regular Examinations- December-2016 **OBJECT ORIENTED PROGRAMMING USING C++** (CSE)

Time: 3 hours

Max. Marks: 75

Note: 1. This question paper contains two parts A and B

2. Part A is compulsory which carries 25 marks .Answer all Questions in part A.

3. Part B consists of 5 units. Answer any one full question from each unit. Each question carriers 10 Marks and may have a, b,c sub questions.

PART-A

1.	a)	Give the rules of naming variables in C++	[2M]
	b)	Describe the importance of a destructor.	[2M]
	c)	How can we implement data hiding	[2M]
	d)	What is the use of this pointer	[2M]
	e)	What is STL?	[2M]
2	a)	What are the applications of void data type in C++	[3M]

Is it mandatory to use a construtor in a class. Why? **b**) [3M] [3M]

- Why is it necessary to overload an operator c)
 - How do the I/O facilities in C++ differ from that in C? d) [3M] [3M]
 - Give the various stream classes for console I/O operations. e)

PART-B

3.	a)	Discuss operators in detail.	[5M]
	b)	Write a Program to find inverse of a matrix.	[5M]
		OR	
4.	a)	Discuss the basic data types available in C++	[5M]
	b)	Write a C++ Program to find largest and smallest elements in given list of	[5M]
		integers.	
5.	a)	Write a C++ program to implement Friend functions.	[5M]
	b.	What is dynamic initialization of objects? Whyd do we need to do this?	[5M]
		OR	
6.	a)	Explain the following	[5M]
	,	(i) Inline Function	
		(ii) Static member function	
	b)	Write a C++ program to implement passing object to functions.	[5M]
	0)	while a Compression to impression passing object to randoms.	[011]
7.	a)	Write a C++ program to implement matrix operations by overloading	[5M]
	/	arithmetic (+, -, *) operators.	
	b)	What is the benefit of Inheritance? Illustrate through examples.	[5M]
	0)	OR	
8.	a)	Explain operator overloading using a friend function.	[5M]
0.			
	b)	What are virtual Base classes? Explain their existence with an example.	[5M]

9.	a)	Write C++ program which reads a text from key code and displays number of						
		lines, words and characters on screen in three columns.						
	b)	What is the basic difference between manipulators and ios member functions						
		in implementations? Give examples.						
	OR							
10.	a)	When do we make a virtual function "pure"? What are the implications of	[5M]					
	making a function a pure virtual function.							
	b) Write in brief about set () function giving its syntax with example program							
	,	· · · · · · · · · · · · · · · · · · ·	[5M]					
11		Write a program to implement executions	[5]\/ []					
11.	a)	Write a program to implement exceptions.	[5M] [5M]					
	D)	b) Explain what is wrong with the below fragment and correct it.						
		Try {						
		//						
		Throw 'a';						
		//						
	}							
	Catch (char *) {							
		//						
		}						
		OR						
12.	a)	Explain the following:	[5M]					
		(i) Catching the exception						
		(ii) Rethrowing an exception						
		(iii) Multiple catch statements						

(iii) Multiple catch statementsb) Explain the basic operations performed on files. [5M]