

Time: 3 hrs

## P.E.S. College of Engineering, Mandya - 571 401

U.S.N

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Max. Marks: 100

## (An Autonomous Institution affiliated to VTU, Belgaum) Sixth Semester, B.E. - Electronics and Communication Engineering Make-up Examination; July - 2016 **Programming in C++**

Note: i) Answer FIVE full questions, selecting ONE full question from each unit.			
ii) Assume missing data suitably. UNIT - I			
1 a.	What is a pointer? Give example. Mention common uses of pointers.	6	
b.	List the sorts of operations performed from string class. Write a program in C++ to copy	0	
	one string to another string without using standard library function.	8	
c.	Write a program in C++ to accept an array of 5 integers and display the addition of array	C	
	elements.	6	
2 a.	What is increment and decrement operator? Give example for each.	6	
b.	List and explain the function of any four bit set operator.	8	
c.	Discuss bitwise operator. Give example for each.	6	
UNIT - II			
3 a.	What are the three methods for performing loop operation in C++? Explain them with the	9	
	syntax and an example.	)	
b.	What is dynamic memory allocation? Give example. List the differences between static	6	
	and dynamic memory allocation.	0	
c.	Explain pre-processor directive. Give example.	5	
4 a.	What is function prototype? Give example.	6	
b.	Write a program that uses call by reference method to call the ADD and MUL function to	8	
	output the sum and the product of the two given numbers.	0	
c.	Define recursive function. Find the factorial of a given number using recursive function.	6	
UNIT - III			
5 a.	Find the minimum of two integers using inline function.	6	
b.	Explain function overloading. Give example.	6	
c.	Define class. With example explain different access specifiers used in C++.	8	
6 a.	Define class and object. How the data members are declared and accessed? Give an	8	
	example.	0	
b.	What is a constructor? Give example.	4	

c. Explain class object arrays and vectors. Give example.

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## UNIT - IV

7 a.	Describe public, private and protected inheritance? Give example.	10		
b.	Explain the ambiguity in multiple inheritances. Give example. How it can be overcome?	10		
8 a.	What is operator overloading? Write a program in C++ to overload operator ++ for both	10		
	prefix and postfix.	10		
b.	Explain overloaded operator new and delete. Give example for each.	10		
	UNIT - V			
9 a.	What is exception handling? With the help of example explain try, through and catch	10		
	mechanism in C++.			
b.	Describe exception specification. Give example.	10		
10 a.	What is an exception? With example explain how try and catch block works.	10		
b.	What is abstract class? Give example.	6		
c.	What is <i>this</i> pointer? Give example.	4		

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