I	ISEC001 Fuge No 1			
P.E.S. College of Engineering, Mandya - 571 401				
(An Autonomous Institution affiliated to VTU, Belagavi) Sixth Semester, B.E Electronics and Communication Engineering				
Semester End Examination; May/June - 2018				
Programming in C++				
-	Time: 3 hrs Max. Marks: 100			
Ν	Note: Answer FIVE full questions, selecting ONE full question from each unit. UNIT - I			
1 a.	What are the sorts of operations that we except from a string class? Write a program in C++ to	10		
	find the length of the string without using standard library functions.	10		
b.	What is the difference between pointers and reference? Give example for each.	10		
2 a.	What is enumeration data type? Give example.	6		
b.	What is a conditional operator? Give example.	6		
c.	With example describe bit-set operator.	8		
UNIT - II				
3 a.	Describe different types of loop operation used in C++. Give example for each.	10		
b.	Explain the following with example :	10		
	i) if statement ii) switch statement iii) goto statement	10		
4 a.	What is function? With example explain the different types of argument passing mechanisms.	10		
b.	What is recursive function? Write a program in C++ to find GCD of two number using recursive	10		
	function.	10		
UNIT - III				
5 a.	What is inline function? Give an example.	6		
b.	Describe function overloading. Give example.	6		
c.	What are class and object? Write a program in C++ to find the area and perimeter of a rectangle	0		
	using class and object.	8		
6 a.	Explain how member functions can be declared in a class with example.	6		
b.	What is the importance of class destructor function? Write the prototype of the same.	6		
c.	Explain different types of constructors with example.	8		
UNIT - IV				
7 a.	Describe public, private and protected inheritance? Give example.	10		
b.	What is multiple inheritance? With an example explain the concept of multiple inheritances.	10		
8 a.	What is operator overloading? Write a program in C++ to overload operator ++ and operator	10		
b.	What is multilevel inheritance? Give Example.	6		

c. List the operators which cannot be overloaded.

4

P13EC661

Page No... 2

UNIT - V

9 a.	What is exception handling? With example explain try, through and catch mechanism in C++.	10
b.	Write a program in C++ to force a catch statement to catch all exceptions.	6
c.	What is exception specification? Give example.	4
10 a.	With example explain pure virtual function.	8
b.	What is friend class? Give example.	6
c.	Describe abstract class with example.	6

* * * *