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

(An Autonomous Institution affiliated to VTU, Belgaum)

Sixth Semester, B.E. - Electrical and Electronics Engineering Semester End Examination; June - 2016 OOPS with C++

Time: 3 hrs Max. Marks: 100

Note: i) Answer FIVE full questions, selecting ONE full question from each unit. ii) Missing data may suitably assume.

	UNIT - I					
1 a.	Mention the basic concepts of OOP. Explain the following terms with examples:					
	(i) Inheritance (ii) Polymorphism.	6				
b.	Differentiate procedure oriented programming and object oriented programming.	6				
c.	Explain the structure C++ programming with class and write a program to display name and	0				
	age of a person using class "PERSON" and the members function "get data" and "put data".	8				
2 a.	Define following with suitable examples:					
	i) Tokens ii) Key word iii) Identifiers	6				
	iv) Operator v) Strings vi) Constant					
b.	Mention the advantages and applications of OOP.	6				
c.	c. Explain the following with suitable examples,					
	(i) CONST qualifier (ii) Operator overloading.	8				
	UNIT - II					
3 a.	What is function overloading? What are the selection criteria for overloaded functions to					
	determine which function to call?	6				
b.	What is a class? Give the general term of a class definition including data members and	0				
	member functions and creation of an object.	8				
c.	Write a function "Fact" to find the factorial of a given number write a main program to take					
	user input for a natural number of which factorial need to be found and test the functions.	6				
4 a.	Create a class with member functions that read two integers, find largest among them and					
	display the largest integer, write a main program to test the class.	6				
b.	b. Explain with an example program, how default arguments are passed to the functions.					
	Mention the conditions followed while configuring default arguments.					
c.	Explain with an example program, the nesting of member functions.	6				

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UNIT - III

5 a.	5 a. What is passing of an object to the function? Explain how this is achieved with an example program.					
b.	What are local and global objects? Mention the scope and life time of local and global	6				
	objects.					
c.	Explain copy constructor with an example.	6				
6 a.	What is a constructor? What are its characteristics?	6				
b.	Explain multiple and parameterized constructor with the help of a sample program.	8				
c.	Briefly explain const member functions.	6				
	UNIT - IV					
7 a.	Explain the overloading of input operator >> and output operator << with sample program.	8				
b.	Define type conversions? Explain basic to class type conversion.	8				
c.	Explain how a private member can be inherited.	4				
8 a.	Explain single and multi level inheritance with an example program [write the block	12				
	diagram also].					
b.	What is operator overloading? Example the overloading of unary (-) minus operator with	0				
	example.	8				
	UNIT - V					
9 a.	Explain "this pointer" with an example program.	10				
b.	Explain Virtual Functions and pure virtual function with examples	10				
10 a.	Explain C++ streams and C++ stream classes with block diagram.	10				
b.	Explain opening a file and closing a file with an example.	10				

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