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P.E.S. College of Engineering, Mandya - 571 401 (An Autonomous Institution affiliated to VTU, Belagavi)

Seventh Semester, B.E. - Computer Science and Engineering Semester End Examination; Dec. - 2019 **Object Oriented Programming with Java**

Time: 3 hrs Max. Marks: 100

Note: Answer FIVE full questions, selecting ONE full question from each unit.

UNIT - I						
1 a.	With an example program, illustrate how members of a structure can be accessed in	8				
	C programming language.					
b.	Explain the characteristics of object oriented programming.					
c.	c. Declare a class with length and width as instance variables and within this class define a					
	method for determining area of rectangle.	4				
2 a.	. Write Java program, which illustrate method overloading.					
b.	b. Define a class that illustrates the following types of constructors:					
	i) Parameterized Constructor					
	ii) Default Constructor					
c.	Differentiate between structure and class.	4				
	UNIT - II					
3 a.	With the help of a simple program, explain the process of compiling and running	8				
	Java program.	O				
b.	Write Java program, to find the largest element in an array.	8				
c.	With syntax and example, explain Ternary operator in Java	4				
4 a.	. Explain type casting in Java with examples.					
b.	Write Java program to find the sum and average of numbers passed as a command	8				
	line arguments.	O				
c.	With example, explain structure of Java program.	4				
	UNIT - III					
5 a.	Explain class modifiers in Java.	8				
b.	Write a Java program to illustrate accessing private data members of a class.	8				
c.	Differentiate between methods and constructors.	4				
6 a.	Write a Java program to illustrate the concept of multilevel inheritance.	8				
b.	Write a Java program to illustrate the use of super keyword in inheritance.	8				
c.	Differentiate between interface and class.	4				

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UNIT - IV

7 a.	With example, explain the significance of finally block in Java	8
b.	Write a Java program, to illustrate the case of catching three unchecked exceptions.	8
c.	List any four commonly used class of Java.lang package.	4
8 a.	Discuss different thread states.	8
b.	b. Write a Java program to create three thread with MAXIMUM, MINIMUM and NORMAL	
	Priority.	8
c.	Discuss any four methods of thread class.	4
	UNIT - V	
9 a.	Explain Delegation event model.	10
b.	Write a Java program to illustrate the use of any two mouse related events.	10
10 a.	Explain the different stages present in the life time of an APPLET.	10
b.	Write Java applet to draw five rectangles and to fill it with different colors.	10

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