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December 2022

BCA Vth SEMESTER

Object Technologies & I	Programming Using	JAVA	(BCA-17-301)
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Instructions:

- 1. It is compulsory to answer all the questions (1.5 marks each) of Part -A in short.
- 2. Answer any four questions from Part -B in detail.
- 3. Different sub-parts of a question are to be attempted adjacent to each other.

,	11 (-	PART -A				
. ((a) Describe the scope of Java variables.				
	-) What is final keyword used for?	(1.5)			
	(0	wait, sieep, yieiu	(1.5)			
	(d		(1.5)			
	(e	What is the role of this keyword?	(1.5)			
	(f)	List 3 built in exception classes.	(1.5)			
	(g	What is an abstract class?	(1.5)			
	(h	List three methods of String class.	(1.5)			
	(i)	Explain 'super' keyword.	(1.5)			
	(i)	What is Garbage Collection?	(1.5)			
	PART -B					
Q	2 (a)	Differentiate between Object Oriented and Procedure Oriented Programming	(F)			
	(b)	Explain various features of JAVA	(5) (10)			
^-			(10)			
Q	(a) (h)	(a) What is a package? How do we create it?				
	נט	What is inheritance? Describe different forms of inheritance supported by JAVA with example	(10)			
Q4		Define class. Write a program using constructor to create a class called "room" having two data members length and breadth and one member function cal_area . Create its object and calculate area. Demonstrate constructor overloading.	(15)			
Q5	(a)	What is an exception? Explain various keywords of exception handling mechanism	(10)			
	(b)	Write a program to sort an array of strings.	(5)			
Q6	(a)	What is a File? Write a program to write data from a file to a console	(10)			
		What is JVM?	(5)			
Q7	(a)	What is an interface? Explain 2 ways of creating interfaces.	(10)			
	(b)	Explain thread prioritization	(5)			