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BPLCK205C/BPLCKC205

Second Semester B.E/B.Tech. Degree Examination, June/July 2024
Basics of Java Programming

Time: 3 hrs.

Max. Marks:100

Note: *1. Answer any FIVE full questions, choosing ONE full question from each module.*
2. M : Marks , L: Bloom's level , C: Course outcomes.

		Module – 1	M	L	C
1	a.	Explain object oriented principles.	6	L2	CO1
	b.	Explain different lexical issues in Java.	8	L2	CO1
	c.	Give different syntax of array allocation in Java.	6	L2	CO1
		OR			
2	a.	Explain different promotion rules in Java.	8	L2	CO1
	b.	Write a Java program for multiplication of two arrays.	8	L2	CO1
	c.	What is type casting? Illustrate with an example.	4	L2	CO1
		Module – 2			
3	a.	Explain the following operations with an example : i) << ii) >> iii) ? iv) &.	8	L2	CO2
	b.	Explain Four different types of if statements in Java.	8	L2	CO2
	c.	Explain the nested switch statement in Java.	4	L2	CO2
		OR			
4	a.	Demonstrate working of break with labels in Java.	6	L2	CO2
	b.	Write a program to sort the elements using for loop.	6	L2	CO2
	c.	Explain any five Boolean logical operators with an example.	8	L2	CO2
		Module – 3			
5	a.	What is Class? How to create objects for the class?	6	L2	CO3
	b.	What are constructors? Explain two types of constructors.	6	L2	CO3
	c.	Explain static variable and static methods in Java.	8	L2	CO3
		OR			
6	a.	Explain the following key words : i) this ii) super iii) final iv) static.	8	L3	CO3
	b.	Write a Java program demonstrating method overloading.	6	L3	CO3
	c.	Explain memory allocation and use of garbage collector in Java.	6	L3	CO3
		Module – 4			
7	a.	Explain different types of inheritance in Java.	6	L2	CO3
	b.	What is abstract class? Explain with an example.	6	L2	CO3
	c.	Explain the working of final class and final method in Java.	8	L2	CO3
		OR			
8	a.	Write example program for method overriding.	6	L2	CO3
	b.	What is super? Explain the use of super with suitable example.	6	L2	CO3
	c.	Explain dynamic dispatch using abstract class in Java using example program.	8	L2	CO3

Module – 5

9	a.	What is Package? How to create and import package in Java. Explain with an example.	8	L2	CO4
	b.	Explain the working of interface in Java.	6	L2	CO4
	c.	What is an exception? Give an example.	6	L2	CO4

OR

10	a.	What is nested try? Explain with an example program.	6	L2	CO4
	b.	Explain try and catch in Java with an example.	6	L2	CO4
	c.	Demonstrate throw, throws and finally in Java with an example.	8	L2	CO4

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