

# CBGS SCHEME



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BPLCKC205/BPLCK205C

Second Semester B.E./B.Tech Degree Examination, Dec.2023/ Jan.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
Q.1	a.	Explain abstraction and inheritance in detail.	6	L2	CO1
	b.	Write a simple java program and explain compilation process.	6	L3	CO1
	c.	Describe the meaning of each keyword in "Public static void main".	8	L1	CO1
OR					
Q.2	a.	Write a note on : i) Integer Data types ii) Boolean Data types.	8	L1	CO2
	b.	Define a variable. Explain declaration and initialization of a variable.	6	L1	CO2
	c.	What is an array? Write a program to demonstrate a one-dimensional array.	6	L3	CO2
Module - 2					
Q.3	a.	Explain bitwise logical operators with an example program.	10	L1	CO2
	b.	Explain : i) Increment and decrement operators ii) Ternary operator.	10	L1	CO2
OR					
Q.4	a.	Illustrate switch statement with syntax and example program.	10	L3	CO2
	b.	Explain any two iterative statements with an example program.	10	L3	CO2
Module - 3					
Q.5	a.	What are constructors? Explain parameterized constructor with an example program.	10	L2	CO2
	b.	Explain : i) Instance variable hiding ii) The finalize() method.	10	L2	CO3
OR					
Q.6	a.	What is Recursion? Explain with an explain program.	10	L2	CO3
	b.	Write a Java program to demonstrate method overloading and constructor overloading.	10	L3	CO3
Module - 4					
Q.7	a.	Explain two uses of super with an example.	10	L1	CO3
	b.	Explain dynamic method dispatch with an example program.	10	L2	CO3
OR					
Q.8	a.	Define abstract class. Explain with an example program.	10	L3	CO4
	b.	What is method overfeeding? Explain with are example program.	10	L2	CO4
Module - 5					
Q.9	a.	What is package? Explain with an example program.	10	L1	CO4
	b.	Write a Java program to read two integers a and b. Compute a/b and print when b is not zero. Raise an exception when b is equal to zero. Also demonstrate working of array index out of Bound Exception.	10	L3	CO4
OR					
Q.10	a.	Define interface. Demonstrate the working of interface in Java with an example.	10	L1	CO4
	b.	Explain chained Exception with an example program.	10	L1	CO4

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