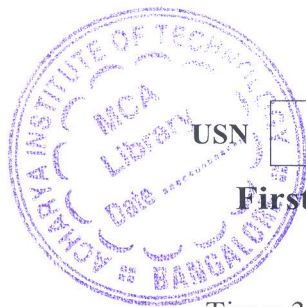


# CBCS SCHEME



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BPLCK105C/BPLCKC105

First 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 the basic principles of object oriented programming.	6	L1	CO1
	b.	Explain primitive data types used in java.	8	L1	CO1
	c.	What is type conversion and type casting? Explain with an example.	6	L1	CO1
OR					
Q.2	a.	Explain two control statements used in Java with syntax and example.	6	L1	CO1
	b.	What is multidimensional array? Explain with an example program.	8	L1	CO1
	c.	Explain lexical issues used in java.	6	L1	CO1
Module – 2					
Q.3	a.	Write a java program to show the use of the following operators: i) <<    ii) >>    iii) >>>	6	L3	CO2
	b.	Explain logical operators with example program.	8	L1	CO2
	c.	Explain for each version of for loop with an example.	6	L3	CO2
OR					
Q.4	a.	Write a note on: i) Break    ii) Continue.	6	L1	CO2
	b.	Explain different types of if statement with example program.	8	L3	CO2
	c.	Write a program to demonstrate the use of ternary operator.	6	L3	CO2
Module – 3					
Q.5	a.	Explain two ways of argument passing methods with example.	6	L1	CO3
	b.	What are constructors? Explain two different types of constructors with example program.	8	L3	CO3
	c.	Define method overloading. Explain constructor overloading with an example.	6	L2	CO3

OR

Q.6	a.	Write a program to perform stack operations using proper class and methods.	6	L3	CO3
	b.	What is recursion? Explain with an example program.	8	L1	CO3
	c.	Explain: i) This keyword ii) The finalize( )	6	L1	CO3

Module – 4

Q.7	a.	What is Inheritance? Explain how a super class variable can reference a subclass variable.	6	L2	CO3
	b.	Explain method overriding with example program.	8	L3	CO4
	c.	Describe the two uses of super keyword with example.	6	L3	CO4

OR

Q.8	a.	Write a note on: i) Final class ii) Final method.	6	L1	CO4
	b.	Explain dynamic method dispatch with example.	8	L3	CO4
	c.	What is abstract class? Explain with an example program.	6	L3	Co4

Module – 5

Q.9	a.	Define package. Explain with an example program.	6	L3	CO4
	b.	What is an exception? Explain different mechanisms of handling the exceptions in java.	8	L3	CO4
	c.	Explain nested interfaces with example.	6	L1	CO4

OR

Q.10	a.	Describe different access specifiers used in java.	6	L1	CO4
	b.	Define Interface. Demonstrate the working of interface.	8	L1	CO4
	c.	Explain how one interface can be extended by another with an example program.	6	L3	CO4

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