Code No:R2022054 **R20** **SET - 1**

II B. Tech II Semester Regular Examinations, June/July - 2022

JAVA PROGRAMMING

(Common to CSE,IT,CSE(CSBS),&CS)

Time: 3 hours **Max. Marks: 70**

Answer any **FIVE** Questions each Question from each unit
All Questions carry **Equal** Marks

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UNIT-I

1	a)	List and explain the Tokens in the Java language.	[7M]
	b)	Demonstrate Bitwise operators using a Java program.	[7M]

Or

2	a)	List and explain the control statements with examples.	[7M]
	b)	Demonstrate the operator precedence using a Java program.	[7M]

UNIT-II

3	a)	Compare the working of constructor overloading with method overloading.	[7M]
	b)	Demonstrate method overriding with an example java program.	[7M]

Or

4	a)	Compare the pass-by-value with the pass-by-reference method using an example.	[7M]
	b)	Demonstrate Nested class concept with an example.	[7M]

UNIT-III

5	a)	Is it possible to implement multiple inheritances in Java? Justify your answer.	[7M]
	b)	Develop a Java program to perform Binary search.	[7M]

Or

6	a)	Demonstrate the Nested Interfaces using an example program.	[7M]
	b)	Develop a program to perform matrices multiplication.	[7M]

UNIT-IV

7	a)	Discuss the advantages of Wrapper classes.	[7M]
	b)	Demonstrate the class Throwable with the help of a Java program.	[7M]

Or

8	a)	Is it possible to Rethrow exceptions? Justify your answer.	[7M]
	b)	List and explain any four packages in Java language.	[7M]

UNIT-V

9	a)	Discuss the issues of Race condition and Deadlock.	[7M]
	b)	Demonstrate Inter-thread communication with a Java program.	[7M]

Or

10	a)	Develop a JDBC application to establish a link between MySQL and Java to save and access a table.	[7M]
	b)	List and explain any three methods of a String class.	[7M]
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Code No:R2022054 **R20** **SET - 2**

II B. Tech II Semester Regular Examinations, June/July – 2022

JAVA PROGRAMMING

(Common to CSE,IT,CSE(CSBS),&CS)

Time: 3 hours **Max. Marks: 70**

Answer any **FIVE** Questions each Question from each unit
All Questions carry **Equal** Marks

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UNIT-I

1	a)	List and explain the Data types in Java program with examples.	[7M]
	b)	Demonstrate the Increment and Decrement operators with a Java program.	[7M]

Or

2	a)	Develop a Java program to perform string reverse operations.	[7M]
	b)	Compare the working of the while loop and do-while loop with suitable examples.	[7M]

UNIT-II

3	a)	Demonstrate pass-by-reference with an example program.	[7M]
	b)	Develop a program to carry out withdrawal operations in ATM.	[7M]

Or

4	a)	Develop a method that initializes the attributes of an object.	[7M]
	b)	Discuss the advantage of This keyword with an example Java program.	[7M]

UNIT-III

5	a)	Discuss the advantage of the Method overriding.	[7M]
	b)	Develop a program to apply merge sort on array elements.	[7M]

Or

6	a)	Compare the features of Array with Vector.	[7M]
	b)	Demonstrate dynamic method dispatch with an example program.	[7M]

UNIT-IV

7	a)	Demonstrate Auto boxing and Auto unboxing with an example program.	[7M]
	b)	Demonstrate Checked exceptions with an example Java program.	[7M]

Or

8	a)	List and explain the blocks of Exception handling with examples.	[7M]
	b)	Explain any two classes with method in Java.lang package.	[7M]

UNIT-V

9	a)	Is there is a need for multi-threading? Justify your answer.	[7M]
	b)	Illustrate JDBC architecture with a neat sketch.	[7M]

Or

10	a)	Explain the concepts Deadlock and race condition.	[7M]
	b)	List and explain any three methods of String class.	[7M]
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Code No:R2022054 **R20** **SET - 3**

II B. Tech II Semester Regular Examinations, June/July - 2022

JAVA PROGRAMMING

(Common to CSE,IT,CSE(CSBS),&CS)

Time: 3 hours **Max. Marks: 70**

Answer any **FIVE** Questions each Question from each unit
All Questions carry **Equal** Marks
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UNIT-I

1	a)	List and explain the features of Java language.	[7M]
	b)	Demonstrate Nested if and else using an example.	[7M]

Or

2	a)	List and explain the formatted input and output statements.	[7M]
	b)	Demonstrate implicit and explicit type casting with an example program.	[7M]

UNIT-II

3	a)	Develop a program to compute the GCD of two numbers using Recursion.	[7M]
	b)	Discuss the advantage of final and static attributes.	[7M]

Or

4	a)	Is it possible to access Private members of a class? Justify your answer.	[7M]
	b)	Demonstrate pass-by-value with an example Java program.	[7M]

UNIT-III

5	a)	Discuss the advantage of the Super keyword with a Java program.	[7M]
	b)	Develop a Java program to read students' six subject marks and computes the aggregate (%).	[7M]

Or

6	a)	Demonstrate multi-level inheritance with an example program.	[7M]
	b)	Develop a program to declare and access the three-dimensional arrays.	[7M]

UNIT-IV

7	a)	Is it possible to define multiple catch blocks in Java? Justify your answer.	[7M]
	b)	Demonstrate Wrapper classes in Java language.	[7M]

Or

8	a)	Demonstrate the formatting for Date / Time in Java with an example program.	[7M]
	b)	Discuss the importance of Throws keyword.	[7M]

UNIT-V

9	a)	Develop a Java program to sort the set of input strings.	[7M]
	b)	Demonstrate Thread prioritization with an example program.	[7M]

Or

10	a)	Explain the steps to establish MySQL with Java.	[7M]
	b)	Illustrate the possible states of Thread with a suitable diagram.	[7M]
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Code No:R2022054 **R20** **SET - 4**

II B. Tech II Semester Regular Examinations, June/July - 2022

JAVA PROGRAMMING

(Common to CSE,IT,CSE(CSBS),&CS)

Time: 3 hours **Max. Marks: 70**

Answer any **FIVE** Questions each Question from each unit
All Questions carry **Equal** Marks

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UNIT-I

1	a)	Explain the usage of Static variables and methods with an example Java program.	[7M]
	b)	List and explain the Unary, Binary and Ternary operators with examples.	[7M]

Or

2	a)	Demonstrate logical operators with an example Java program.	[7M]
	b)	Develop a program to compute factorial of a number.	[7M]

UNIT-II

3	a)	Demonstrate the Final method with an example.	[7M]
	b)	Discuss the advantage of a constructor.	[7M]

Or

4	a)	Define recursion. Discuss the advantages of recursion.	[7M]
	b)	Is it possible to define a class within another class? Justify your answer.	[7M]

UNIT-III

5	a)	Illustrate types of Inheritance with a suitable diagram.	[7M]
	b)	Discuss the advantages of the Interface.	[7M]

Or

6	a)	Develop a program to compute the inverse of a given matrix.	[7M]
	b)	Demonstrate multiple Inheritance with an example Java program.	[7M]

UNIT-IV

7	a)	Demonstrate unchecked and checked exceptions with an example program.	[7M]
	b)	Is it possible to Rethrow exceptions? Justify your answer.	[7M]

Or

8	a)	Illustrate the Hierarchy of standard Exception class with a neat sketch.	[7M]
	b)	Demonstrate Temporal Adjusters class with an example Java program.	[7M]

UNIT-V

9	a)	Illustrate the JDBC architecture with a neat sketch.	[7M]
	b)	Demonstrate Thread prioritization with a Java Program.	[7M]

Or

10	a)	Propose any solutions to Deadlock and Race condition issues.	[7M]
	b)	Illustrate the Thread states transitions with a neat sketch.	[7M]
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