Name: Printed Pages: 1

Student University Roll No.:

School of Engineering

Second Sessional Examination, Even Semester (AS: 2023-24)

B. Tech: CSE **Year: III** **Semester: VI**

Course Title: Core and Advance JAVA **Max Marks: 60**

Course Code: BCS3601 Time: 3hrs

Instructions if any: Read the question Carefully.

	SECTION 'A' Q.N.1. Attempt all parts of the following:	Course Objective	Marks
a)	Why Java is called platform independent language?	CO1	1
b)	List the Applications of Object-Oriented Programming.	CO1	1
c)	What do you understand by Thread?	CO2	1
d)	What is Multi-Level Inheritance?	CO2	1
e)	Write the syntax of importing the package.	CO3	1
f)	Write about Byte Stream.	CO3	1
g)	What is Applet?	CO4	1
h)	Write the use of setVisible() method.	CO4	1

	SECTION 'B' Q.N.2. Attempt any two parts of the following:	Course Objective	Marks
a)	Explain the features of JAVA (at least 10).	CO1	6
b)	Explain the concept of Multithreading. Also explain both the ways of Creating Threads.	CO2	6
c)	Write about the Input Stream and Output Stream.	CO3	6
d)	Design a User Interface to collect data from the students for Admission Application using Swing Components.	CO4	6

	SECTION 'C'	Course Objective	Marks
Q.N.3. Attempt any two parts of the following:			
a)	Compare and Contrast between overloading and overriding the methods with example.	CO1	5
b)	What is Garbage Collection? Explain finalize method with example.	CO1	5
c)	Explain the complete structure of JAVA program with proper example.	CO1	5
Q.N.4. Attempt any two parts of the following:			
a)	Write the difference between Abstract Class and Interface.	CO2	5
b)	Explain the concept of Exception Handling with the use of try and catch keyword.	CO2	5
c)	Describe the Life Cycle of the Thread.	CO3	5
Q.N.5. Attempt any two parts of the following:			
a)	Write about Packages. Explain the importance of Packages.	CO3	5
b)	Write the difference between final, finalize and finally keyword.	CO2	5
c)	Explain the steps to Create and Run the Applet.	CO4	5
Q.N.6. Attempt any two parts of the following:			
a)	Describe the Life Cycle of an Applet.	CO4	5
b)	Explain the following terms: i) this keyword ii) super keyword iii) final keyword iv) new keyword	CO2	5
c)	What do you understand by Layout Managers in Java? Explain each of them.	CO3	5

Table 1: Mapping between COs and questions

(Number of COs may vary from course to course)

COs	Questions Numbers	Total Marks
CO1	Q1(a),(b),Q2(a),Q3(a),(b),(c)	23
CO2	Q1(c),(d),Q2(b),Q4(a),(b),Q5(b),Q6(b)	28
CO3	Q1 (e),(f),Q2 (c),Q4 (c),Q5(a),Q6(c)	23
CO4	Q1(g),(h),Q2(d),Q5 (c),Q6(a)	18