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School of Engineering
First Theory Sessional Examination
Odd Semester (AS: 2024-25)

B. Tech: CSE **[Year: 2nd]** **[Semester : 3rd]**

Course Title: Core and Advance JAVA	**Max Marks: 30**
Course Code: NCS4304	**Time: 1hrs**

Instructions: 1-Mention any assumptions made. 2-Notations have usual meaning.

SECTION 'A' **Q.N.1. Attempt all parts of the following:**		**Course Objective**	**Marks**
a)	What is Garbage Collection in Java?	CO1	1
b)	What is the Difference between Break and Continue statements?	CO1	1
c)	Explain polymorphism in java.	CO2	1
d)	Illustrate the usage of 'this' keyword.	CO1	1
e)	Define class and object in java.	CO1	1
SECTION 'B' **Q.N.2. Attempt any two parts of the following:**		**Course Objective**	**Marks**
a)	What is procedural language? Differentiate between procedural language and OOP.	CO1	7.5
b)	"Java is called Machine Independent language" - Justify this statement with proper explanation.	CO1	7.5
c)	What do you mean by static class and static method? Write a program to explain the same.	CO1	7.5
SECTION 'C' **Q.N.3. Attempt any one parts of the following:**		**Course Objective**	**Marks**
a)	Explain various access specifies supported by Java with an example.	CO1	10
b)	Write a java program to illustrate "Constructor Overloading".	CO1	10
c)	Write a java program to simulate the operation of numerical calculator to perform the functions Addition (+), Subtraction (-), Multiplication (*) and Division (/).	CO1	10

Table 1: Mapping between COs and questions

COs	Questions Numbers	Total Marks
CO1	Q1a, b, d, e, Q2a, b, c, Q3a, b, c	56.5
CO2	Q1c	1