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**School of Computing Science and Engineering**

Bachelor of Computer Applications

Mid Term Examination - May 2024

Duration : 90 Minutes

Max Marks : 50

**Sem IV - E1UA402C - Java Programming**General Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) How does Java Garbage Collection work? K2 (2)
- 2) Differentiate JDK, JVM & JRE with respect to their use. K1 (3)
- 3) Write a java program to access constructor of super class. K2 (4)
- 4) What are the differences between Constructor and Method? Explain with a programming example. K2 (6)
- 5) Write a java program to find the number of all even numbers greater than 100 and less than 200 and also find the sum of those numbers K3 (6)
- 6) What are the advantages and disadvantages of using an array in Java? Write a program to find the largest element of a one dimensional array in java K3 (9)
- 7) Discuss the structure of Java programming with a suitable example. Write a java program to print the sum of n even numbers. "n" should be a value entered by user. K4 (8)
- 8) Analyze the JVM architecture and show how they make java a secure and platform independent language. Write a program in java to check greatest among three numbers. All the input should be entered by user's choice K4 (12)

**OR**

- What is operator overloading. Show a program to show operator precedence of various operators K4 (12)