

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

## School of Computing Science and Engineering

Bachelor of Technology in Computer Science and Engineering

Mid Term Examination - Nov 2023

Duration : 90 Minutes

Max Marks : 50

### Sem III - E2UC304C - Java and JavaScript

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) What is the benefit of "Unicode" in Java? K1 (1)
- 2) How does Java Garbage Collection work? K2 (2)
- 3) Write down the result of the following code K3 (3)  
class j\_operator  
{  
    public static void main(String args[])  
    {  
        byte x = 64;  
        int i;  
        byte y;  
        i = x << 2;  
        y = (byte) (x << 2);  
        System.out.print(i + " " + y);  
    }  
}
- 4) What is the use of finally block in exception handling. Can we write Java statements after the finally block? Explain K3 (6)
- 5) What is the purpose of inner class in Java? Create inner classes using all possible ways. K3 (9)
- 6) Write a java program to read a string through keyboard and rewrite it in the alphabetical order. For example, the word STRING should be written as GINRST. K4 (8)

- 7) Design a class to represent a bank account. Include the following member: Data Member \* Name of depositor K5 (15)
- \* Account number
  - \* Type of account
  - \* Balance amount in the account
- Methods
- \* To assign initial values
  - \* To deposit an amount
  - \* To withdraw an amount after checking balance
  - \* To display the name and method
- 8) Can we write private access modifier before a class? Explain with the help of inner class. K6 (6)