

# School of Computing Science and Engineering

Department of Computer Application

Mid Term Examination

Exam Date: 01 Oct 2023

Time : 90 Minutes

Marks : 50

## Sem V - E1UA505C - Programming in Java

*Your answer should be specific to the question asked*

*Draw neat labeled diagrams wherever necessary*

- 1) What is a constant and a variable? K2 (2)
- 2) What are command line arguments? How are they useful? K1 (3)
- 3) How are data and methods organized in object oriented programming? K2 (4)
- 4) Write a program to convert the given temperature in fahrenheit to celsius using the given formula:  $C = (F-32)/1.8$ . K2 (6)
- 5) Write a program in java to print the Floyd triangle. K3 (6)
- 6) What is inheritance and how does it help us create new class quickly? K3 (9)
- 7) Given two one dimensional array A and B which are sorted in ascending order. Write a program to merge them into a single sorted array C that contains every item in arrays A and B in ascending order. K4 (8)
- 8) Discuss the different levels of access protection available in java. Explain with example. K4 (12)

**OR**

Write a program, which will read a string and rewrite it in the alphabetical order. For example, the word STRING should be written as GINRST. K4 (12)