Assignment -1 **Indian Institute of Technology Dharwad** Date: 25-10-2022

Course: EE 325 - Microprocessor & Microcontrollers. **Roll No:** _____

Semester: First, 2022-2023 **Name:** _____
Total marks: 10
Due on: November 6, 2022; 2355hrs
Instruction: *You are encouraged to discuss amongst yourselves, however copying of the answers is strictly prohibited and will be dealt with as per the Institute rules.*

1. Write a program to find the average of 5 numbers stored in memory locations starting from 60H. [3 pts]

2. Write an assembly language program to perform division of two numbers in R0 and R1. The quotient should be stored in A and the remainder in B. DO NOT USE the DIV AB instruction! Write comments for each line of the code. [3 pts]

3. Write a program to generate a 2.5 kHz waveform on P1.0 with a 20% duty cycle. Write comments for each line of the code. [4 pts]