

Department of Electrical Engineering

Assignment

Date: 24/09/2020

Course Details

Course Title: Instrumentation and Measurement

Semester: Summer-20

Instructor: _____

Total Marks: 50

Student Details

Name: _____

Student ID: _____

Q1.	What is the difference between Kelvin's Bridge and Wheatstone Bridge? Explain briefly.	Marks 10
Q2.	A student has connected two voltmeters in series and have applied 500V across them. Both voltmeters have the same range of 0-300V. What will be their readings if their internal resistances are 25k Ω and 15 k Ω respectively?	Marks 10
Q3.	Explain how the potential on the upper (top) node in a DC bridge is equal to the potential on the lower (bottom) node?	Marks 10
Q4.	What will happen if the phase difference between two alternating fluxes in an induction type energy meter is zero degrees?	Marks 10
Q5.	Why the energy meters designed for DC circuits cannot be used for AC circuits?	Marks 10