Department of Electrical Engineering
Assignment
Date: 20/08/2020

Course Details

Course Title: Instrumentation and Measurement **Semester:** Summer-20
Instructor: _____ **Total Marks:** 30

Student Details

Name: _____ **Student ID:** _____

Q1.	**(a)**	Why ammeter is always connected in series in a circuit for the measurement of current? Explain briefly.	**Marks 05**
	(b)	Why voltmeter is always connected in parallel in a circuit for the measurement of voltage? Explain briefly.	**Marks 05**
Q2.	**(a)**	What is the difference between direct and indirect method of measurement?	**Marks 05**
	(b)	What will happen if a spring in not connected with the coil of a moving coil galvanometer? Explain briefly.	**Marks 05**
Q3.		A student is performing an experiment in the laboratory during which he finds out that the measuring instrument is giving a Full Scale Deflection for a current of 50 mA. He wants to measure current upto 90 mA with the help of this measuring instrument. Now, What should be the appropriate value of the resistor to be added with this instrument so that it can measure up to 90 mA? Moreover, should the resistor be connected in series or parallel with this instrument?	**Marks 10**