

IQRA National University, Peshawar **Department of Electrical Engineering Spring 2020**

Elective 5 (Power). Elective 4 (Electronics).

Industrial Electronics

Terminal Examination

Reg.No:_	
nstructor: Engr.	Sanaullah Ahmad

Name:

Total Marks: 50 Attempt All Questions. Question No 1. 10 A. Consider a lubricating oil tank in Industrial Plant having 2 sensors, one is put near to the bottom and one near to top, to fill the tank, motor A will pump oil to tank until the high level sensor turns on, at that point the motor A turns OFF. Motor A is turned ON when the level fall below the low level sensor. Explain the states of PLC operating cycle with help of neat ladder diagrams. CLO-3 **Ouestion No 2** 20 A. Write some benefits of Industrial Automation CLO-2 B. Briefly explain the components and functions of SCADA system CLO-2 **Question No 3** 20 A. Differentiate between Hardwired control systems and PLC system CLO-3 B. What are the function of SCADA systems CLO-2

.Good Luck.