

 Parul University 	Parul University Faculty of Engineering and Technology Parul Institute of Engineering and Technology Electronics and Communication Engineering Department
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Subject Name	ICT WORKSHOP	A.Y	2025-2026
Subject Code	(03010702ES01)	Semester	2nd

Sr No	Questions	COs	B.T
1	Draw symbols and write one application each of Diode, Zener diode, LED, and Transistor.	1	1
2	Differentiate between Diode and Zener diode (any three points).	1	2
3	Write the function of LED and mention its advantages.	1	2
4	What is a Digital Multimeter (DMM)? List its main functions.	2	1
5	Explain how voltage measurement is done using a DMM.	2	3
6	State precautions while measuring current using a DMM.	2	3
7	Define CRO and list its main applications.	3	1
8	What is a Function Generator? Name different waveforms generated by it.	3	1
9	Explain the working principle of a Cathode Ray Oscilloscope.	3	2
10	What is a DC regulated power supply? Why is regulation required?	4	1
11	Draw and explain the block diagram of DC regulated power supply.	4	2
12	Write specifications of a typical DC power supply.	4	1
13	Define soldering and de-soldering.	5	1
14	List tools required for soldering.	5	1
15	Write precautions to be taken during soldering process.	5	3
16	What is a temperature sensor? Give two examples.	6	1

17	Explain the working of LM35 temperature sensor.	6	2
18	List applications of temperature sensors.	6	2
19	What is a water flow sensor? State its principle of operation	7	1
20	List applications of water flow sensors.	7	2
21	Write advantages of using water flow sensors.	7	2
22	What is a distance measurement sensor? Name one type.	8	1
23	Explain working of an ultrasonic distance sensor.	8	2
24	Write applications of distance measurement sensors.	8	2
25	What is a rain detector sensor?	9	1
26	Explain the working of a rain detector circuit.	9	2
27	List applications of rain detector sensors.	9	2
28	Write objectives of your group project.	10	2
29	List components and sensors used in your project.	10	1