

UNIT-4 and 5	
1.	Describe the operation of digital storage oscilloscope.
2.	With neat diagrams explain the operation of phototransistor and optocoupler.
3.	With neat diagrams describe the concept of LVDT.
4.	With neat diagrams explain the construction and operation of LDR.
5.	With neat diagrams explain the construction and operation of LCD display.
6.	With neat diagrams explain the construction and operation of hall effect transducer.
7.	With neat diagrams explain the construction and operation of IR sensor
8.	With neat diagrams explain the construction and operation of multimeter.
9.	With neat diagrams explain the construction and operation of biosensor.
10.	With the aid of neat diagrams, explain the construction and operation of thermocouple and thermistor
11.	With the neat diagrams, explain the operation of photodiode.
12.	Describe the structure and working of photovoltaic cell.
13.	Explain the concept of power transmission and distribution
14.	Explain the concept of electrical vehicle.
15.	Describe the principle and importance of earthing.

16.	Briefly explain the key diagram of 11kV/400V indoor substation.
17.	Briefly explain the typical AC and DC supply schemes.
18.	Explain the concept of electrical systems.
19.	Explain the concept of electrical safety and electrical shock precaution.
20.	Explain the concept of fuel cell technology.