Diploma in Engineering
Diploma in Electrical Engineering
ETE - Jun 2023

Time : 3 Hours   **Marks : 100**

Sem IV - N1DI403B - Electronics Engg-II
Your answer should be specific to the question asked
Draw neat labeled diagrams wherever necessary

1.	Illustrate types of encoders with their diagrams.	K2 CO2 (5)
2.	Describe the Logic gates with symbols.	K2 CO2 (5)
3.	Explain the half-adder and draw its K-Map.	K2 CO2 (5)
4.	Describe the Full Adder with the help of its truth table and K-Map.	K2 CO2 (10)
5.	Write the specifications of an OPAMP.	K3 CO3 (10)
6)	Sketch the functional block diagram with the explanation of the function of its various blocks of 8085 microprocessors.	K4 CO4 (10)

OR

	Outline the need of microprocessor in modern technology.	K4 CO4 (10)
7.	Show the diagram of an OPAMP circuit and explain its blocks.	K3 CO3 (10)
8)	Consider modulation and demodulation and then mention its need in a communication system.	K5 CO5 (15)

OR

	Recommend the necessary elements of a communication system.	K5 CO5 (15)
9.	Outline the applications, advantages and disadvantages of 8085 microprocessor.	K4 CO4 (15)
10.	Consider the advantages and disadvantages of satellite communication and explain.	K5 CO5 (15)