

ANURAG Engineering College

(An Autonomous Institution)

III B.Tech I Semester Regular Examinations, December – 2024

MICROPROCESSORS & MICROCONTROLLERS

(ELECTRICAL AND ELECTRONICS ENGINEERING)

Time: 3 Hours

Max. Marks: 60

Section – A (Short Answer type questions)**(10 Marks)****Answer All Questions**

	Course Outcome	B.T Level	Marks
1. In how many modes we can operate of 8086 Microprocessor?	CO1	L2	1M
2. Interpret the usage of ALE pin?	CO1	L2	1M
3. PPI stands for what?	CO2	L1	1M
4. What is the usage of DMA Controller?	CO2	L2	1M
5. Expand USART?	CO3	L1	1M
6. Which communication is better for long distance and why?	CO3	L1	1M
7. What is the operating frequency of 8051 microcontroller?	CO4	L1	1M
8. How Port-0 is differ with other ports?	CO4	L1	1M
9. Expand LED?	CO5	L2	1M
10. Maximum number of segments in seven segment display?	CO5	L2	1M

Section B (Essay Questions)**Answer all questions, each question carries equal marks.****(5 X 10M = 50M)**

11. A) Draw the Architecture of 8086 microprocessor explain in detail?	CO1	L3	10M
OR			
B) Identify different Addressing modes and explain with example?	CO1	L3	10M
12. A) Interface the following memory IC's with 8086 i) Two 4KB EPROMs, ending at FFFFFH ii) Two 4KB SRAMs, starting at 00000H	CO2	L3	10M
OR			
B) Explain Master and Slave mode in 8257 DMA controller?	CO2	L2	10M
13. A) Interface USART with 8086 and explain with registers?	CO3	L3	10M
OR			
B) Explain in detail with neat sketch IEEE-488?	CO3	L2	10M
14. A) List the Timer mode operations in detail and explain the registers?	CO4	L2	10M
OR			
B) Explain the Architecture of 8051 Microcontroller explain each and every block in detail?	CO4	L2	10M
15. A) Write a program to send Commands and Data to LCD with a time delay?	CO5	L2	10M
OR			
B) Explain ADC interfacing to 8051 Microcontroller?	CO5	L2	10M

