ANURAG Engineering College

(An Autonomous Institution)

III B.Tech I Semester Regular/Supplementary Examinations, Dec-2023/Jan-2024 MICROPROCESSORS AND MICROCONTROLLERS (COMMON TO ECE & CSE)

Time: 3 Hours Max. Marks: 75				
Section – A (Short Answer type questions) Answer All Questions		Course		Marks) Marks
		Outcome	Level	141411179
1.	Define Accumulator.	CO1	L1	2M
2.	What is the difference between service routine and sub routine?	CO1	L2	3M
3.		CO2	L1	2M
4.		CO2	L2	3M
5.	What is the address range of internal ROM of 8051?	CO3	L1	2M
6.		CO3	L2	3M
7.	Define baud rate.	CO4	L1	2M
8.	What is the difference between software and hardware interrupt?	CO4	L2	3M
9.	What is Arduino?	CO5	L1	2M
10.	List out the advantages of Arduino.	CO5	L2	3M
	Section R (Essay Overtions)			
Section B (Essay Questions)				
11 4)	r all questions, each question carries equal marks.		\mathbf{X} 10 \mathbf{M} =	= 50M)
11. A)	Define addressing mode and explain different addressing modes presented in 8086 microprocessor.	CO1	L2	10 M
	OR			
B)		CO1	L3	10M
12. A)	With a neat Diagram Explain the architecture of 8255. OR	CO2	L2	10M
B)	Draw a circuit diagram to interface 8251 with 8086 and explain.	CO2	L3	10M
4.5				
13. A)	Explain the pin configuration of 8051 controller.	CO3	L2	10M
D)	OR			
В)	Explain different types of addressing modes in 8051 microcontroller.	CO3	L2	10M
14. A)	Describe how the priority of the interrupts handled in 8051 microcontroller.	CO4	L2	10M
B)	OR Discuss about the operation of different timer modes of 8051 microcontroller.	CO4	L3	10M
15. A)	Write down the basic I/O functions weed in Andrian	20.5		
13. A)	Write down the basic I/O functions used in Arduino programming. OR	CO5	L2	10M
B)	What is the basic difference between setup function and loop function in Arduino programming? Explain with a suitable example.	CO5	L3	10M