ANURAG Engineering College

(An Autonomous Institution)

III B.Tech II Semester Supplementary Examinations, Dec-2023/Jan-2024
MICROPROCESSORS AND MICROCONTROLLERS
(ELECTRICAL AND ELECTRONICS ENGINEERING)

Time:	3 Hours	Max.Ma	rks:75	
Section – A (Short Answer type questions) Answer All Questions		(25 Marks Course B.T Marks		Marks) Marks
		Outcome	Level	172001 225
1.	Define a Microprocessor.	CO1	L1	2M
2.		CO1	L2	3M
3.		CO2	L1	2M
4.	What are the functions performed by INTEL8251A.	CO2	L2	3M
5.	Define baudrate.	CO3	L1	2M
6.	Write the differences between Microcontroller and Microprocessor.	CO3	L2	3M
7.	Define serial communication.	CO4	L1	2M
8.	service of the servic	CO4	L2	3M
9.	Write the applications of Proteus software.	CO5	L1	2M
10.	Write the difference between Arduino and 8051 microcontrollers.	CO5	L2	3M
	Section B (Essay Questions)			
Answer all questions, each question carries equal marks.		$(5 \times 10M = 50M)$		
11. A)	Write an assembly language program to convert binary number to BCD number.	CO1	L3	10M
	OR			
B)	Describe the importance of assembler directives.	CO1	L3	10M
12. A)	Describe the operation of USART.	CO2	L3	10M
	OR			10111
B)	Describe different modes of operation of 8255.	CO2	L3	10M
13. A)	Write sort notes on memory organization of 8051.	CO3	L3	10M
	OR	000	115	10111
B)	Describe the different types of instructions used in 8051 microcontrollers.	CO3	L3	10M
14. A)	Discuss about timer operation in different modes.	004	T 2	107.5
17. A)	OR	CO4	L3	10M
B)	Write short notes on SCON and PCON registers.	CO4	L3	10M
15. A)	Write a program for blinking led by using Arduino.	CO5	L3	10M
	OR			

B) How to simulate Arduino and LCD using Proteus.

10M

L3

CO5