REG.NO .:



SCHOOL OF ELECTRONICS ENGINEERING CONTINUOUS ASSESSMENT TEST - II WINTER SEMESTER 2024-2025

SLOT: F2

Programme Name & Branch

:Integrated M Tech MIC, MID

Course Code and Course Name

: CSI2006 Microprocessor and Interfacing Techniques

Faculty Name(s)

:Dr.S.Rajalakshmi, Dr. N.Rajesh, Dr, C.M Vidhyapathi, Dr.Sagar

Pareshkumar ,Dr.Arunkumar Chandrasekhar

Class Number(s)

:VL2024250504203,4207,4186,4209,4196

Date of Examination

: 11/04/25

Exam Duration

:90 minutes Maximum Marks:50

General instruction(s):

).No	Question	M	CO	BL
1.	a. Explain the sequence of steps performed by 8086 Microprocessor to handle			
	interrupts. Also highlight the use of Stack in interrupt handling.		3	3
	b. Show the status of general-purpose register in 8086, stack memory and			
	stack pointer after execution of each instruction of following 8086 ALP using			
	Stack Memory bank diagram. [5M]			
	MOV AX, 5000H			
	MOV SS, AX			
	MOV SP, 2000H	[5+		
	MOV CX,4563H	5]		
	MOV BX,8796H			
	MOV AX,5674H			
-	PUSH CX			
	PUSH BX			
	POP AX			
	POP BX			
	PUSH AX			
	POP CX			
	PUSH AX			
	HLT		-	
2.	Calculate the delay generated by the following delay subroutine of an 8086			
	Microprocessor which is operated with 8 MHz clock.			
	DELAY:	10	3	
	MOV BX,40000			
	OUTLOOP:MOV CX,0FFABH			

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	INLOOP:NOP			
	NOP			
	DEC CX			
	JNZ INLOOP			
	NOP		and department of the second	
	NOP			
	DEC BX			designation of the last of the
	JNZ OUTLOOP END			Auto de la constante de la con
3.				-
5.	Interface an 8255(Programmable input output port) with 8086 Microprocessor			autoria republicano
	to work as I/O port. Initialize port A as Input Port, Port B as Output port.			
	Write a program to sense switch positions SW0 to SW7 connected at PORT			
	A. The sensed pattern should be inverted (ON means OFF) and displayed on	10	4	reaction of the contract
	PORT B in which eight LEDs are connected. Also, the PORT C upper should			-
	display the number of OFF switches out of the total eight switches.			and contract of the party of the contract of t
4.	Design an interface between 8086 CPU and two chips of 64K × 8 ROM and two chips of 32K × 8 RAM. Select the starting address of ROM suitably. The RAM address must start at 00000H.	10	4	4
5.	Interface DAC0800 8-bit Digital to Analog Converter with 8086			
	Microprocessor. Write 8086 Assembly Language Program to			
	a) Generate a Sawtooth waveform.			
	b) Generate a Triangular waveform.	10		
	b) Generate a Iriangulai waveloini.			
	[발생] 경기 시민 사람들은 하는데 가장 보는 그래요?		1	
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