

(An Autonomous Institution)

Regulations: A15

L5

Code No: 5D408 Date: 22-August Tray

B.Tech II-Year II- Semester External Examination, August - 2024 (Supplementary) COMPUTER ORGANIZATION AND MICROPROCESSOR & INTERFACING (CSE)

Time: 3 Hours Max.Marks:75

Note: a) No additional answer sheets will be provided.

- b) All sub-parts of a question must be answered at one place only, otherwise it will not be valued.
- c) Missing data can be assumed suitably.

Remember

PPI.

## **Bloom's Cognitive Levels of Learning (BCLL)**

		Remember	L !	Дрріу	LJ	Lvaluate	LJ			
		Understand	L2	Analyze	L4	Create	L6			
	ax.Marks:25									
			-	NSWER ALL	QUESTION	3		BCLL	CO(s)	Marks
1	Exp	olain about Floati	ng Point re	presentation.				L2	CO1	[2M]
2	Explain about logic micro-operations.							L2	CO2	[2M]
3	Define micro program.							L1	CO3	[2M]
4	Discuss about Special function Registers in 8086.							L2	CO4	[2M]
5		olain TEST and F						L2	CO5	[2M]
6		lain the function						L2	CO6	[3M]
7		olain about Arithn						L2	CO1	[3M]
8	Discuss any two assembler directives of 8086.							L2	CO4	[3M]
9	Write an 8086 program for adding two numbers.							L1	CO5	[3M]
10	Exp	plain the interrupt	t structure o	of 8086. <b>Part – B</b>				L2	CO6	[3M]
		x.Marks:50								
	RKS.	20(-)								
11.	a)	Apply 2's compl	ement to n	erform the arith	metic opera	ation (+35) – (-	15)	BCLL L3	CO(s) CO1	Marks [5M]
	,	Analyze the bina			•	, , ,	,	L4	CO1	[5M]
4.0	,	·	•		·				000	
12.	a)	Define Instruction	•			•		L2	CO2	[5M]
	b)	List any two sin			among me	emory reference	ce and	L2	CO2	[5M]
		register referen	ce instruction	ons.						
13.	a)	Explain about M	licro progra	mmed Control	unit design			L2	CO3	[5M]
	b)	Draw and expla	in the flow	chart for any tw	vo logical op	erations.		L2	CO3	[5M]
14.	a)	Draw the archi	tocture of	2026 micropro	ococcor and	montion its	caliont	L2	CO4	[5M]
14.	a)	features.	tecture or	6060 micropic	ocessor and	i illelidoli its	Sallelit	LZ		[JIVI]
	b)	Mention the diff	orant mam	ory coamonts (	of 2026 and	list its imports	nco	L2	CO4	[5M]
	D)	Mendon the tim	CICIL IIICIII	ory segments (	or 6000 and	iist its iiriporte	ince.	LZ		[Olvi]
15.	a)	Discuss in de	etail abou	t the maxim	num mode	signals of	8086	L2	CO5	[5M]
	,	microprocessor.		· · · ·		J		_		[]
	b)	Write an 8086 p		sorting numbe	rs in descer	nding order.		L1	CO5	[5M]
10	,		J	J		J	- الحصا	1.0	CO6	
16.	a)	What are the d	aimerent sc	ources of 8086	interrupts	r Briefly expla	in the	L2	000	[5M]

steps taken by the processor to execute an interrupt.

b) Draw the circuit diagram of interfacing 8086 CPU to DAC0808 using 8255 L2

CO6

[5M]

17.	a)	Apply 2's Complement to perform the arithmetic operation (+33) + (-25)	L3	CO1	[4M]
	b)	Write a short note on Shift micro-operations.	L1	CO2	[3M]
	c)	Draw and explain the flow chart for Division operation.		CO3	[3M]

- 18. a) Write the 8086 assembly language program to check whether the L2 CO4 [5M] number is Palindrome or not. If it is palindrome, set the carry otherwise clear the carry.
  - b) Discuss the interface of 8086 with keypad and Display device with a L1 CO5 [5M] suitable diagram.

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