## WALCHAND COLLEGE OF ENGINEERING (Government Aided Autonomous Institute) Visharambag, Sangli – 416415 Second Year B.Tech. Computer Science and Engineering Supplementary ODD SEMESTER, AY 2022-23 Computer Organization and Architecture (6CS204) C02 Supplementary PRN: pate: Wednesday, 01/11/2023 Time: 02.00 pm to 05.00 pm Max Marks: 100 MP: Verify that you have received question papers with correct course code, branch etc. a) All questions are compulsory. CO2 octions b) Writing question number on answer book is compulsory otherwise answers may not be assess c) Assume suitable data wherever necessary. d) Figures to the right of question text indicate full marks. CO<sub>2</sub> e) Mobile phones, smart gadgets and programmable calculators are strictly prohibited. f) Except PRN anything else writing on question paper is not allowed. g) Exchange/Sharing of stationery, calculator etc. not allowed. COL on the right of marks indicates course outcomes (Only for faculty use) Mai 20 Answer the following (ONE Mark each) Capacity of One Segment in 8086 is ....... kB. D) 128 C) 64 B) 32 A) 16 COI Effective Address is ...... Bit value in 8086 b) D) 128 C) 64 B) 32 A) 16 Following Addressing Mode is NOT there for 8085 c) D) Based Indexed C) Immediate B) Direct A) Register Segment Register for Source Operand in MOV AL, [BX] instruction is ..... d) D) ES C) DS B) SS A) CS COL RAR Instruction affects ...... Flag. D) Auxiliary Carry e) C) Carry B) Zero COL A) Sign Following is Non-Maskable Interrupt for 8085. D) RST 6.5 C) RST 7.5 B) TRAP A) INTR After TRAP Interrupt is received, the Program Counter becomes . CO2 D) 003CH g) C) 0030H B) 0024H A) 0000H Addressing Mode for Source Operand in MOV AL, [BX] is ...... D) Register Indirect C) Relative h) B) Direct Addressing Mode for Source Operand in MOV AL, (BX+SI) is ...... CO2 D) Based Indexed C) Relative i) Addressing Mode for Source Operand in MOV AL, [8000H] is ...... B) Direct D) Based Indexed C) Relative Addressing Mode for Source Operand in MOV AL, BL is ..... B) Direct D) Register k)

B) Direct

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A) Immediate

	1)	Addressing Man	Mode for Source Operand in MOV AL, [SI] is			d)		
		A I Immonistra	Section 1 Section 4	and the description	Fall reduction of the	67		
	m)	Addressing Mod	le for Source Oper	and in MOV AL, I	D) Based Indexed	A SHEET		
	-	A) Immediate	B) Direct	C) Keinnan		e)		
	n)	A) 00000H	B) FFFFH	8086 becomes C) F000H		6)		
	0)	After RESET, th	e SS Register in 8 B) FFFFH	C) F000H	D) Undefined	15		
	p)	After RESET, th	e IP Register in 8	086 becomes C) F000H	D) Undefined			
	q)	A) 0000H After RESET, th	B) FFFFH e SP Register in 8	C) F000H	D) Undefined	21		
	r)	A) 0000H	B) FFFFH n-Vectored Intern	upt for 8085.	D) RST 6.5			
	s)	AATNTD	B) TRAP	8085 becomes	The state of the s			
		A) 0000H	B) FFFFH	C) F000H 3085 becomes		100		
	1)	A) 0000H	B) FFFFH	C) F000H	D) Undefined			
ARB TE	e) i) N	STA 5000H LDAX B MOV M, C CMP M	b) LHLD 8000 f) PUSH H j) CALL 7000 n) JNC 6000H	g) POP D H k) STAX I	b) INX H D l) LXI H, 112	22Н		
5	6	5 5	20' 5	0. 60.	27			
Q3	Exp	Explain following 8086 Instructions in brief.						
5	a) N	IOV [BX], AL	b) MUL BL	c) DIV BX	d) MOV [BX+DI	], AL		
5	e) A	ND AL, BL	f) LOOP	g) INC DX	h) MOV AL, [40	00Нј		
3	i) M	OVSB	j) POP AX					
4 a)	Write starti	Write an 8085 Assembly Language Program to arrange an array of 8 bytes starting from 8100H in ascending order.						
(b)	Write	Write an 8085 Assembly Language Program to add to a Pickle of the second						
13	store	d at 8000H and	8001H and st	ore result of ad	dition at 8002H &	8003H		
To the same		N. C.	90		at OUUZII C	V. R. S. D. S. S.		

0	Write an 8085 Assembly Language Program to transfer a Block of 5 Bytes	700
10	Write an 8085 Assembly Language Program to multiply two 8-Bit multiplication 8002H & 8003H.	5
e)	State any four differences between 8085 and 8086 Processors.	4
	Write Short Notes on the following with suitable Diagram wherever necessary. (Not more than 25 - 30 Lines)	16
	a) Integer & Floating Point Representation of Numbers	
	b) Internal Architecture of 8085	
	c) 8086 Processor Architecture and Features	
	d) ARM Processor Architecture	
Supply Supply	End of question paper	Kon Kato