WALCHAND COLLEGE OF ENGINEERING

(Government Aided Autonomous Institute) Vishrambag, Sangli – 416415

Second Year B.Tech. Computer Science and Engineering ESE, ODD SEMESTER, AY 2022-23

Computer Organization and Architecture (6CS264)

PRN: _



ESE

Day & D	ate: F	riday, 10/02/2023 Time: 10.00 am to 1.00	noon Max Marks 50	7	
IN		erify that you have received question papers a) All questions are compulsory. b) Writing question number on answer book assessed. c) Assume suitable data wherever necessary	is compulsory otherwise answers		n tos
		d) Figures to the right of question text indicate) Mobile phones, smart gadgets and prograf) Except PRN anything else writing on que g) Exchange/Sharing of stationery, calculate	ate full marks. mmable calculators are strictly pro- estion paper is not allowed.		
		right of marks indicates course outcomes (Only		Mai	111
Q1	A	Explain in detail Instruction cycle state	liagram.	4	COI
	R)	What is Interrupt and describe how to pr	ocess nested Interrupt?	5	COI
	C)	Explain the difference between CALL a	nd JUMP Instructions of 8085	S	CO2
	٠,	OR		4	
		What is the meaning of HLDA and HO	LD pins of 8085?		
	D)	- tents of Accumulator, B re	gister and status of Flag		CO)
		MVI A, 38H			
		MVI B, 2FH		6	
		ADD B			
		STA 2050H			
		MOV B, A			
		HLT			

Q2	A) B)	Explain any four Addressing modes of 8085 with example. Use 8085 instruction set and write a short program to Mask all bits of A=5BH except bit 4. State the contents of accumulator after result.	4	
		OR Write a short Assembly Language Program to right shift 0FH number by 2 bits using 8085 instructions. State the results.	3	
Q3	A)	State any four differences between 8085 and 8086 Processors.	4	0
		Describe in brief the four segment registers of 8086.	4	a
		The value of Extra Segment (ES) Register is 3055H and the value of different offsets is as follows:		C
		BX: 1050H, IP: 0500H, DI: 0520H, BP:0450H, SI: 0150H	2	
		Calculate the effective address of the memory location pointed by the ES register.		
	D	Which are the control Flags of 8086? Discuss each of them separately.	4	COI
	E)	List out the Pins required when 8086 working in Maximum mode.	2	COS
Q4	A	Explain Current Program Status Register (CPSR) of ARM core with neat diagram.	4	TOT
	В	What are banked registers? Show how the banked registers are utilized when the user mode changes to IRQ mode.	4	OE .
		···· End of question paper ····		