Ref/Ex/PE/B/T/322D/2023/S

Jadavpur University. B.Power Engg.3rd Year 2nd Semester Examination(Supplementary) 2023 Microprocessors & Microcontrollers

Time:3hrs	Answer All Questions	Full Marks 100
(ii) (-1624) ₁₀ in 2s complement binar	gned 2Byte Hexadecimal representation by notation fixed point and an exponent form represer	CO(1) atation (4+2+4)
lb. Compute the following using sui	table binary representations	
(i). (110) ₁₀ + (40) ₁₀		
(ii). (13) ₁₀ - (28) ₁₀		10
2. Answer the following:		
(ii) A micro-processor has a 8 bit data and its Memory Size.	se registers in a 8085 Micro-processor. a bus and 20 bit Address Bus. Compute its present the RD cycle of a 8085 Micro-pro	
numbers using a logic diagram a He	er with a Carry. Represent a Full Adder once represent the Full Adder with Carry e and the clock frequency is 1MHz. what t	ither by Moore Machine .If
4. Write an Assembly Level program	n in 8085 to do the following:	CO(3)
 (i) Move the contents of memory location 2000H to register D (ii) Move the contents of memory location 2001H to register E (iii) Add the contents of register D to that of E (iv) Store the result in memory location in the Memory Location 3020H (v) If [2000H] is 06H of and [2001H] is EAH then compute the content of [3020H] and deduce the state of the Carry Flag for your selection. (3 +3+3+3+8) 		
5. Design a Memory system of 64KB 8Kby1 Chips showing chip select	for a 8 bit Micro-processor with an Adion logic	dress bus of 16bits using CO(4) 20
6. With a neat schematic represent the	Or he interrupt system of a 8085 micropro	cessor CO(4) 20