Thapar Institute of Engineering	
END SEMESTER	eering Department (CSED)
BE MBA:U Grade Exam	Course Code: UCS617 Course Name: Microprocessor Based Systems Design
March 08, 2022	Friday, 05:45M – 07:45 PM
Time: 2.00Hrs, Max. Marks: 50	Name of Faculty: Dr. Chinmaya Panigrahy
Attempt any five questions. Q1. Fill in the blanks. (1x10) (a) RST 2 = CALLH. (b) machine cycle of 8085 constitutes IO/M=1, 8 (c) ALE signal is activated during T cycle of any (d) If condition fails, conditional JMP instruction takes (e) The size of instruction queue in 8086 is byte(s) If the logical adress (segment:offset) = E678:21BB. The segments are signal controls the mode in which 8086 Microp (h) flag of 8085 flag register is not explicitly associately instruction. (j) The 16 low order address lines of 8086 are time multipless lines are time multiplexed with control signals.	y 8085 machine cycle T cycles to execute.). corresponding physical address is H. processor opearates. ciated with any instruction.
Q2. Explain 8085 microprocessor with a neat block diagram	n. (10)
	l be the value of all 5 Flag registers and Accumulator after
(a) MVI A, 59H MVI B, 99H (b) MVI A, EF MVI B, CI	

Q7. What do you mean by interrupt? What are the hardware, software, maskable, non-maskable, vectored, and non-

vectored interrupts? Explain with an example of each type. Explain \mathbf{SIM} instruction in detail. (1+6x1+3)

execution units. (10)