Registration	no:
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Tota	al Nu	umber of Pages: 01	MCC102
1 <sup>st</sup> Sem MCA Regular/ Back Examination –2014- 15 MICROPROCESSOR AND ASSEMBLY LANGUAGE PROGRAMMING BRANCH(S): MCA Time: 3 Hours Max marks: 70 Q.CODE:T810 Answer Question No.1 which is compulsory and any five from the rest. The figures in the right hand margin indicate marks.			
Q1	c) d) e) f)	What is vectored interrupt? What is the main use of ready pin? What is the use of HLDA and HOLD? How clock signal is generated in 8086? What is the maximum internal clock frequency of 8086? What is Tri-state logic? What is Hardware and software interrupt?	(2 x 10)
Q2	a) b)	Draw the Opcode Fetch machine cycle of 8085 and discuss. What features must the processor and the DMA controller have to ensure proper operation in DMA mode, explain?	(5) (5)
Q3	a) b)	Draw the SIM instruction format and discuss. Bring out the distinguishing features between memory mapped I/O scheme and I/O mapped I/O scheme.	(5) (5)
Q4		Draw the pin configuration and functional pin diagram of 8085 microprocessor and explain function of each pin.	10
Q5	a) b)	Discuss the two registers program counter and stack pointer. What is the function of ALE and how does it function?	(5) (5)
Q6	a) b)	Distinguish between the three modes of 8255. Draw the I/O Read and I/O Write machine cycles and discuss.	(5) (5)
Q7	a) b)	Mention and explain the modes in which 8086 can operate. What is meant by 'addressing mode'? Explain the different addressing modes of 8085?	(5) (5)
Q8	a) b) c) d)	Write short notes(Any TWO) USART Synchronous and Asynchronous mode DTS Encoder and decoder LDAX and STAX	(5 x 2)

**MCA**