(b)	What is the difference between			Code: 031611		
	software-triggered strobe and hardware triggered strobe in 8253 (with the help of timing diagram)?  Explain the following terms with respect to Sample and Hold circuits:  (i) Acquisition time	6	akubihar.com	B.Tech 6th Semester Exam., 2015		
ھ <b>6</b> akubihar.com				MICROPROCESSOR AND ITS APPLICATION  Time: 3 hours  Full Marks: 70  Instructions:		
ھ akubihar.com	(iii) Droop rate  Also explain the parameters which should be considered while selecting the capacitor for Sample and Hold circuit.  With the help of an interfacing diagram, discuss the details of connecting ADC 0800 to a microcomputer system.	7	akubihar.com	<ul> <li>(i) The marks are indicated in the right-hand margin.</li> <li>(ii) There are MINE questions in this paper.</li> <li>(iii) Attempt FIVE questions in all.</li> <li>(iv) Question No. 1 is compulsory.</li> <li>1. Answer any seven of the following: 2×7=14</li> <li>(a) What is the maximum I/O addressing capacity of 8085?</li> </ul>	akubihar.com	
akubihar.co	Discuss the concept of pipeline architecture. Also explain how it is implemented in Intel 8086. What is the use of bus controller in maximum mode of Intel 8086?	6	akubihar.co	<ul><li>(b) Why should program counter in 8085 be a 16-bit binary counter?</li><li>(c) Which status does the status signal in 8085 reflect?</li></ul>		
Β (6	Explain various addressing modes supported by Intel 8086.	8	m	<ul> <li>(d) What is the addressing mode of CMA instruction?</li> <li>(e) What is the status of A<sub>8</sub>-A<sub>15</sub> pins during the execution of IN instruction?</li> </ul>		

		(2)	akub	ihar.co		(3)		
akubihar.com akubihar.com	Ø	Write the order of interrupt prior 8085.	rity in	<b>3</b> .	3/ (9)	differentiate cycle and instruction cycle.  Write an 8085 assembly language program to find out the lowest and the highest number in a data array. The highest number in a data array. The bytes of data array are stored starting from the memory location DATA. The size of data array is stored at memory location ARRAY. Store the highest number obtained at memory location NUM1 and the lowest number obtained at memory location NUM2.  Discuss the differences between memory-mapped I/O and I/O-mapped I/O.		
	<i>(g)</i>	What are the two functions for SIM instruction is used?	which				7	
	(h)	What is the address of Port A of 80 the address of the control reis 83H?	255, if egister	akubihar.com	(6)			
	<i>(i)</i>	How many machine cycles are re for MOV A, M?	equired	В				
	(i)	addressing capacity of 8086?	nemory	akubi			7	akubil
	(a)	Discuss the functions of various to buses available in Intel 8085. I multiplexing of lower-order addre- and data bus done in Intel 8085	Why is ess bus	akubihar.com	<b>4.</b> (a)		6	akubihar.com
akubihar.com	<b>16)</b>	Explain the functions of the folisignals in 8085:  (i) ALE  (ii) IO/M  (iii) HOLD  (iv) SID  (v) X <sub>1</sub> , X <sub>2</sub>	llowing 8	akubihar.com	(b) 5. (a)	how a DMA controller operates in a microcomputer-based system. Explain why DMA-based data transfer is faster than I/O-based data transfer.  Explain the processes of input handshaking and output handshaking in Intel 8255. What is the special	8	
		(vi) INTR (vii) RESET OUT				feature of Port A of 8255? Which are th handshaking signals involved?	8	
		(viii) RD	Continued )		AK15—1	1210 <b>/600</b> (Turn Ove	er)	

AK15-1210/600