rgpvonline.com rgpvonline.com Total No. of Questions: 8] [Total No. of Printed Pages: 2 Roll No ..... **EX-6003 (CBGS) B.E. VI Semester** Examination, May 2018 **Choice Based Grading System (CBGS)** rgpvonline.com Microprocessor and Microcontrollers Time: Three Hours Maximum Marks: 70 Attempt any five questions. Note: i) ii) All questions carry equal marks. What kind of technology is used in 8086 µp? Explain the modes in which 8086 can operate? Draw and discuss the architecture of 8086. Mention the jobs performed by EU and BIU. rgpvonline.com Describe how memory is organized for 8086 µp? Explain the term assembler directive, given a tabular form of assembler directives. What is the difference between 8254 and 8255 programmable interval timer? List the various modes of

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,	4.	a)	What are the different addressing modes of 8051? Expleach with instruction.	ain 7
		b)	When used in multiprocessing, which bit in which regists used by a transmitting 8051 to signal receiving 805	
			that an interrupt should be generated.	7
	5.	a)	With the help of example explain programming of exterinterrupts. rgpvonline.com	nal 7
		b)	Explain the memory structure of 8051.	7
	6.	a)	Draw and explain 8051 connections to RS-232.	7
		b)	Draw and explain the bit pattern of TMOD registers.	7
	7.	a)	Why is PIC program memory 14 bits wide?	7
		b)	What do you mean by orthogonal instruction set?	7
8.		Wri	ite a short notes on any two:	14
		a)	Programmable counter array (PCA)	
		b) Features and limitation of 32 bit PIC microcontroller		
		c)	8096 instruction set	

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8255. Explain any one mode with waveforms.

Draw the architecture of DMA controller. Explain in brief.

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