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Roll No

EX-6003 (CBGS) B.E. VI Semester

Examination, May 2018

Choice Based Grading System (CBGS) 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 up? Explain the modes in which 8086 can operate?
 - b) Draw and discuss the architecture of 8086. Mention the jobs performed by EU and BIU.
- 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 8255. Explain any one mode with waveforms.
 - b) Draw the architecture of DMA controller. Explain in brief.

PTO

4.	a)	what are the different addressing modes of 8051? Exp each with instruction.	lain 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.	
5.	a)	With the help of example explain programming of exterinterrupts. rgpvonline.com	rnal 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.	Write a short notes on any two:		14
	a)	Programmable counter array (PCA)	
	b) Features and limitation of 32 bit PIC microcontro		r
	c)	8096 instruction set	
