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Tota	al N	o. of Questions: 8]	[Total No. of Printed Pages :
			Roll No
		EX	K-502
		B.E. V	Semester
		Examination	December 2016
			and Microcontroller
		Time: T	Three Hours
			Maximum Marks: 7
No	te: i)	Total number of quality questions.	estions eight. Attempt any five
	ii) All questions carry e	qual marks.
1.	a)	Explain the architect	are of 8086 microprocessor wi
		diagram.	to builtout a second
	b)	How does 8086 micr	oprocessor is differ from 8028
		and 80386? Show the	comparative study.
2.	a)	Write an assembly lange	age program using 8086 instruction
		set to add following se	
		$1^2 + 3^2 + 5^2 + \dots$	
	b)	Draw and explain fla	g register and stack structure
		8086 microprocessor	
3.	a)	Explain DMA controll	er 8257. What are the requiremen
		to interface it with 80	
	b)	Write a program to	generate square wave usin

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4.	a)	Explain, how you will interface DAC chip to 808	6
		microprocessor.	1
	b)	Explain control word for serial communication interfac	e
		chip.	7
5.	a)	Explain the addressing modes of 8051 microcontrolle	I
		with example.	7
	b)	Discuss the interrupt structure and their priorities in case	e
		of 8051 microcontroller.	7
6.	a)	Draw and explain the architecture of 8051 microcontroller	
			7
	b)	Discuss the memory map of a 8051 microcontroller.	7
7.	a)	Explain the interfacing of stepper motor with 805	L
		microcontroller.	7
	b)	Explain how a timer is programmed in 8051.	7
8	a)	How you will connect 8051 microcontroller to RS 232	?
٠.	/	Explain.	
	L)		
	b)		
		programming for 8051 microcontroller.	ſ

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EX-502 PTO

programmable peripheral interface chip.

EX-502