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	Reg. No.:	201
(†)		Market Mr. States III
Ques	stion Paper Code	: 91492
EE6502 – MICI (Common to Fifth Se Instrumentation and Co	EE EXAMINATIONS, NOVE Fifth/Sixth Semester Manufacturing Engineer ROPROCESSORS AND MIC emester Electronics and Inst ontrol Engineering, Robotics Electrical and Electronics En (Regulations 2013)	ing CROCONTROLLERS crumentation Engineering/ and Automation Engineerin
Time: Three Hours		Maximum: 100 Mar
	Answer ALL questions	
	PART – A	(10×2=20 Mark
1. What is the function of	of program counter in 8085 mic	croprocessor?
2. Mention the purpose	of SID and SOD lines.	ollar
3. How is time delay ger	nerated using subroutines?	
4. Explain the functioning	ng of CMP instruction.	
5. Explain the interrupt	s of 8051 microcontroller.	
6. What is the significan	ace of PSEN and EA pin in 805	1 microcontroller ?
7. Give the difference be	tween maskable and non-mas	kable interrupts.
8. How is keyboard inter	rfaced with microprocessor?	
9. Explain the function	of DJNZ instruction.	
10. What is meant by bit	oriented instructions?	
	PART – B	(5×13=65 Mark
11. a) Explain with a nea	at block diagram, the architect	
A CARLO CONTRACTOR OF THE SECOND CONTRACTOR OF	(OR)	
• 15		

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91492 b) i) Explain the interrupt structure of 8085 microprocessor. (7) ii) Draw the timing diagram of Opcode Fetch machine cycle. (6) 12. a) i) Explain the logical instructions with examples. (6) ii) Write an 8085 Assembly program to convert a Hexadecimal Number to ASCII (7) (OR) b) Write an 8085 Assembly language program to multiply two numbers in memory locations 4200 and 4201 and store the product in memory locations 4202 and 4203. 13. a) i) Explain the vectored interrupts in 8051 microcontroller. (7) ii) Explain the different addressing modes of 8051 microcontroller. (6)(OR) (a) b) Explain with a neat block diagram the architecture of 8051 microcontroller. 14. a) Draw the block diagram of 8255 (PPI) and explain its various operating modes. (OR) With a neat diagram, explain the internal architecture of keyboard and display controller IC-8279. 15. a) Explain the interfacing of stepper motor control with 8051 and write an assembly language program for running the stepper motor in clockwise direction. b) Explain the closed loop control of a servo motor using 8051 with a neat diagram. PART - C (1×15=15 Marks) 16. a) Propose and develop a schematic sketch for closed loop control of position control using servo-motor and explain its controls using 8051. b) Develop a schematic sketch for washing machine controls with display using 8051.