	Reg. No. :						
Question Paper Code: 57101							
B.E./B.Tech. DEGREE EXAMINATION, DEC 2020							
Fifth Semester							
Electrical Engineering							
15UEE503 - MICROPROCESSORS AND MICROCONTROLLER PROGRAMMING							
(Regulation 2015)							
Durat	tion: One hour	Ma	ximum: 30 Marks				
PART A - $(6 \times 1 = 6 \text{ Marks})$							
(Answer any six of the following questions)							
1.	ALE stand for		CO1- R				
	(a) Address latch enable (b) Address light enable						
	(c) Address lower enable (d) Address last enable		enable				
2.	Which of the following is the non-vectored interrupt?						
	(a) INTR (b) TRAP	(c) RST6.5	(d) RST6.6				
3.	The MSB of a data can be masked by using C		CO2- R				
	(a) ORI 0FH (b) XRI 0F H	(c) CPI 0FH	(d) ANI 0FH				
4.	A microcontroller is having		CO2- R				
	(a) Internal memory (b) Internal ports	(c) 16 data lines	(d) Both a & b				
5.	After reset, SP register is initialized to add	dress	CO3- R				
	(a) 8H (b) 9H	(c) 7H	(d) 6H				
6.	Which components are NOT found on c but may be found on chip in a microcontr						
	(a) SRAM & USART (b) EPROM & Ports		orts				
	(c) EPROM, USART & Ports (d) SRAM, EPROM & Ports						
7.	In 8255A is used for handshaking operation. CO4- I						
	(a) mode 0 (b) mode 1	(c) mode 2	(d) mode 3				

8.	8253/54 can be operated in		_ Modes?		CO4- R		
	(a) 3	(b) 4	(c) 5	(d) 6			
9.	The logical instruction that affects the carry flag during its execution is CO5				CO5- R		
	(a) XRL A	(b) ANL A	(c) ORL A	(d) RLC A			
10.	The instruction, ADD A, R7 is an example of(a) Register instructions(b) Register specific instructions		CO5- R				
			(b) Register specific instr	ructions			
	(c) Indexed addressing (d) None of the above						
	PART - B (3 x 8 = 24 Marks)						
(Answer any three of the following questions)							
11.	Illustrate the pi	llustrate the pin outs of 8085 with neat sketch.		CO1- U	(8)		
12.	Develop an ALP for $(a^2+b^2)$ using 8085 instructions.		CO2- Ap	p (8)			
13.	Discuss the microcontrolle	•	organization of 805	CO3- U	(8)		
14			0005 11 1 11		$\langle 0 \rangle$		

- 14. Interface IC 8255 to microprocessor 8085 with port A address CO4- App (8)
  98H and write a program in BSR mode to generate 100 pulses at the rate of 200 Hz and duty cycle 40%.
- 15. Develop an assembly language program to interface servo CO5- App (8) motor with 8051.