Reg. No.:					

Question Paper Code: 35304

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2021

Fifth Semester

Electrical and Electronics Engineering

01UEE504-MICROPROCESSORS AND MICROCONTROLLER PROGRAMMING

(Regulation 2013)

Duration: Threehours Maximum: 100 Marks

Answer ALL Questions.

PART A - $(10 \times 2 = 20 \text{ Marks})$

- 1. What is a flag? List the flags of 8085?
- 2. What is ALE?
- 3. How PUSH B instruction is executed? Give the stack register after execution?
- 4. How is time delay generated using Subroutines?
- 5. What is the purpose of overflow flag in 8051 Microcontroller?
- 6. Mention the interrupts of 8051 microcontrollers.
- 7. What is the need for 8259 PIC?
- 8. What are the functions of USART.
- 9. What is the purpose for scan section in Keyboard interface?
- 10. State the principle of microcontroller based Stepper motor control System.

11.	(a)	Explain the architecture of 8085 microprocessor with neat diagram.	(16)
		Or	
		Draw the timing diagram for the execution of the instruction MOV A, B in a cessor and explain.	
12.	(a)	Discuss about the instruction set of 8085 microprocessor with example.	(16)
		Or	
	(b)	Write an assembly language program based on 8085 microprocessor instruction which uses a Lookup table.	ruction set 16)
13.	(a)	With neat sketch explain the architecture of 8051 microcontroller.	(16)
		Or	
	` ′	Discuss about the organization of Internal RAM and Special function regists in microcontrollers.	ers of 16)
14.	` '	Explain with neat sketch, the A/D and D/A converter interfacing with 8085 croprocessor. (16)	
		Or	
	(b)	Explain the block diagram of 8251 in detail and explain the two control detail.	words in
15.	(a)	Explain about the closed loop control of servo motor using 8051 Microcontrol	roller. (16)
		Or	
	(b)	Explain in detail about the keyboard interfacing with the 8051 microcontrol	ler. (16)