Government Polytechnic, Mumbai

Department: Information Technology   **Term: ODD 2024-25**

Unit Test: II

Course: MED   26/10/2024   **Course Code: IT23108**

Duration: 1 hour Marks: 20   **Class: TYIF [IIIsem]**

Q1	Attempt following (3*2)		**06**
a)	List internal and external interrupts in 8051 microcontrollers.		[CO3,R]
b)	Draw interfacing diagram of an LED with8051 microcontroller.		[CO4,U]
c)	State the function of TB8 and TB9 bits in SCON register.		[CO3, U]
Q2	Attempt following (2*4)		**08**
a)	Explain IE register in detail.		[CO3,U]
		OR	
a)	ExplainTMOD register in detail.		[CO3,U]
b)	Write an ALP to display 7 on common anode type 7-segment display. Also draw its interfacing diagram with 8051		[CO4,A]
		OR	
b)	Write an ALP to control angular position of stepper motor by 36 degrees considering step angle 1.8 degree. Also draw its interfacing diagram with 8051.		[CO4, A]
Q3	Attempt any TWO (2*3)		**06**
a)	Explain any two modes of serial communication.		[CO3,U]
b)	Identify a bit to enable/ disable all interrupts. Discuss its need.		[CO3,A]
c)	Write an ALP to generate triangular wave using DAC0808.		[CO4, A]

CO No.	R	U	A	Total
CO3	02	13	03	18
CO4	--	02	11	13
Total	02	15	14	31

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