## 00974

## B.Tech. IN ELECTRICAL ENGINEERING (BTELVI)

## Term-End Examination June, 2013

<b>BIEE-010 : MICRO CONTROLLERS</b>			
Time	: 3 hours	Maximum Marks	: 70
Note	: Attempt <b>any seven</b> q marks.	uestions. All questions carry ed	qual
1.	Compare microproces with the help of block	sors and microcontrollers diagrams and explain.	10
2.	Draw and explain the microcontroller.	e block diagram of 8051	10
3.	Discuss the internal R along with stack and s	AM Organisation of 8051 tack pointer.	10
4.	Explain the addressisuitable examples.	ng modes of 8051 with	10
5.	Put the number 34H is using four different me	n registers R5, R6 and R7 ethods.	10

- 6. Discuss the Jump and Call Program range in detail 10 with an illustration.
- 7. Write the steps required to program timer T1 to 10 interrupt after 8 ms using mode 'O' and oscillator of 12 MHz with 8051.
- 8. Discuss the memory constitution used in 8051 C 10 computer mentioning the respective variables.
- 9. Explain how 8051 can be connected to RS 232 C of a computer for serial communication? Why is the IC MAX 212 required as an interface?
- 10. Write short notes on any two:

5x2=10

- (a) Timer Modes of 8051
- (b) SFR's of 8051
- (c) Interrupts of 8051