B.Tech. IN ELECTRICAL ENGINEERING (BTELVI)

Term-End Examination December, 2013

BIEE-010: MICRO CONTROLLERS

Time	: 3 hours	Maximum Marks : 70
Note	: Attempt any seven questions. a marks.	All questions carry equa
1.	Discuss the evolution of micro 32 bit giving examples.	ocontrollers upto 10
2.	Draw and explain the blo 8051 microcontroller.	ck diagram of 10
3.	Discuss the internal RAM 6 8051 along with stack and stack	0
4.	Enlist and discuss the bit-add registers of 8051.	ressable control 10
5.	Put the number 8D _H in RAM locusing four different methods.	eations 30_{H} to 34_{H} 10
6.	Discuss bit, byte and unconditions corresponding 8051 instructions	, .

- 7. Write the steps required to program the timer T0 to interrupt after 16ms using mode 1 and oscillator frequency is of 12MHz.
- 8. Write a C-program to write 0×75 at port 0 with 10 comments.
- 9. Write a C-program to set the band-rate equal to 9600 in mode-3 for serial transmission using T1 in mode 2 for specifying band rate. Assume a 11.0592 MHz crystal. Reset SMOD bit.
- 10. Write short-notes on any two: 5x2=10
 - (a) Output Port 0 and Port 1 of 8051.
 - (b) TCON and TMOD registers.
 - (c) 8051 oscillator and clock.