Department of Electronics and Telecommunication

Date : 22nd Sept., 2015 Session Class Test -II Time : 1Hr Marks: 15

Course code & Title: ETU504 - Microcontroller and it's Applications

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Solve any **one** (1) from Q1 and Q2. (1x5M)

Qu.1. Discuss all the timer modes of operation.

Qu.2. Write a note on the interrupts in 8051μC. How the system will respond if two or more interrupts having equal priorities are generated?

Compulsory questions (2x5M)

Qu.3. Write an ISR to continuously receive a serial byte at a baud rate of 9600 and transfer it to port2. Also toggle the LEDs connected to P1.0 (initially ON) and P1.1 (initially OFF) after receiving external interrupt INT0.

Qu.4. Write an ALP to send message "HELLO" on serial port at a baud rate 2400. The message is stored from memory location 60h of the ON-chip RAM.

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Department of Electronics and Telecommunication Engineering

Date: 26th Sept., 2019
Time:4.30pm to 5.30pm

Session Class Test - II
ETU504 - Micro-Controller and Its Applications

Marks: 15

All questions are compulsory.

Q1. Write an ALP to generate a continuous square wave on pin P1.5 using Timer 0 in mode 1 for a time delay generated by count value 7634h in the timer register. Also find the frequency of square wave if XTAL = 11.0592MHz. 05

Q2. Write an ALP to monitor P1.6, when it becomes '0' accept 8-bit data from port 0 and send it to port2. Also check if the byte is greater than 99h, store it from memory location 3000h. 05

Q3. Write an ALP to send a message "ELECTRONICS" stored from memory location 5000h serially at a baud rate of 9600 for a crystal frequency of 24MHz. 05