

## Department of Electronics and Telecommunication

Date : 22<sup>nd</sup> 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 8051 $\mu$ C. 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.