**MS4E24**

**Fourth Semester M.Sc.IT**

**Examination Aug/Sep-2015**

**Embedded Systems**

**Time:-3Hours Max. Marks: - 75**

**SECTION-A**

**Answer any five questions. (5\*5)**

1. Define the direct addressing.
2. Clarify the SBUF register.
3. Briefly write about the data and resource protection.
4. Comment on the Shift register.
5. Draw the pin diagram of EPROM.
6. Briefly write about the addressing of operands for the logical instructions.
7. Write a short note on software de bounce techniques.

**SECTION-B**

**Answer any two questions. (10\*2)**

1. How assembly language programs execute?
2. Describe the Data move instructions.
3. Discuss the External hardware interrupt.

**SECTION-C**

**Answer any two questions. (15\*2)**

1. What is an Interrupt? Why do we use Interrupts?
2. Discuss the flags that are altered by the multiply instruction and the divide instruction.
3. Explain the interrupt system of the 8051.