



B.E.(with Credits)-Regular-Semester 2012-Electronics & Communication
Engineering & (Telecom. Eng) Sem V

EC504 Micro Controller and its Applications

P. Pages : 2

Time : Three Hours

Max. Marks : 80

Notes :

1. All questions carry marks as indicated.
2. Due credit will be given to neatness and adequate dimensions.
3. Assume suitable data wherever necessary.
4. Diagrams and Chemical equation should be given wherever necessary.
5. Illustrate your answers wherever necessary with the help of neat sketches.

1. a) Draw the architectural block diagram of 8051 μ C. **8**
- b) Explain the following registers: **8**
- | | |
|--------|-------|
| a) PC | b) SP |
| c) Acc | d) IE |

OR

2. a) Draw & explain PSW register of 8051 μ C. **8**
- b) Explain programming model of 8051 μ C. **8**
3. a) Explain interrupts in 8051 μ C. What is interrupt vector table & ISR? **8**
- b) Explain I/o ports of 8051. Also mention its alternate functions. **8**

OR

4. a) Explain timer registers TMOD & SCON for serial register. **8**
- b) Explain Mode 1 & Mode 2 of 8051 μ C timer. **8**

OR

