

## **All The best For Exams - Rejinpaul Team**

**Anna University Exams Nov/Dec 2015 – Regulation 2013**  
**Rejinpaul.com Unique Important Questions – 5th Semester BE/BTECH**  
**EC6504 MICROPROCESSOR AND MICROCONTROLLER**

### **UNIT -I**

1. With Architecture Diagram explain 8086 microprocessor with neat diagram.
2. Explain (a) Linking (b) Relocation (c) interrupts
3. With example explain How are instructions of 8086 are classified
4. Explain in detail about various Addressing Modes of 8086 microprocessor
5. Explain various Assembler Directives available in 8086
6. Explain about the Macros with suitable syntax and example

### **UNIT II**

1. Discuss Minimum and Maximum mode of operation of 8086
2. Explain (a) 8086 memory banks (b) multiprocessor configurations (c) Advanced microprocessor
3. Explain (a) System Bus Structure (b) Interrupt Priority Management
4. Explain (a) loosely coupled system (b) Closely Coupled Configuration (c) co-Processor Configuration

### **UNIT-III**

1. Explain (a) I/O Interfacing (b) Memory Interfacing with 8086 (c) Memory mapped I/O
2. explain (a) 8251 serial communication interface (b) 8255 Parallel communication interface (c) 8259 programmable interrupt controller (d) 8257 DMA controller and explain its operations
3. Draw the Block diagram of ADC and DAC

### **UNIT IV**

1. Architecture of 8051 microcontroller with block diagram
2. Explain the internal data memory structure of 8051 microcontroller with its SFRs
3. Explain the internal and external data memory organization of 8051
4. Explain 8051 (a) Ports and Internal Circuits of 8051. (b) Addressing Modes
5. Explain (a) internal working of 8051 (b) Special Function Registers of 8051.

### **UNIT V**

1. Explain about the Timers of 8051 with its Modes of Operation. Also explain about the registers of 8051 Timer
2. How to interface an LCD display with microcontroller
3. What are the interrupts available in 8051? Explain about the Interrupt Structure.
4. Explain in detail about Keyboard interfacing with 8051
5. Explain (a) connection details of DAC to 8051 (b) sensor interfacing with 8051.
6. Explain in detail about interfacing of stepper motor with 8051

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**Questions Are Expected for University Exams This May or may Not Be Asked for Exams**

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