



Name :

Reg. No:



SEVENTH SEMESTER B.TECH DEGREE EXAMINATION, NOVEMBER 2013

Electronics and Communication Engineering**EC 09 705 L16 – EMBEDDED SYSTEMS
(2009 Scheme)**

Time : Three Hours

Maximum : 70 Marks

PART A**I. Answer all Questions**

1. State two differences between microprocessor and microcontroller
2. Define a task state.
3. State two features of 8096 microcontroller
4. What is a cross compiler?
5. What is an RTOS ?

(5X2=10 marks)

PART B**II. Answer any four questions**

1. State the characteristics of an Embedded System.
2. Explain the role of processor selection in Embedded System.
3. Explain about OS security.
4. Explain any five instructions of 8096 with an example for each
5. Explain about the interrupts of 68HC12 family microcontrollers
6. Explain about integrated development environment.

(4X5= 20 marks)

PART C**III Answer all questions**

1. Explain the design of an Embedded system used in Biomedical field
Or
2. Explain the design of an Embedded system used in Control system.
3. Explain the timer functions and interrupt handling in RTOS environment.
Or
4. Explain about memory management in RTOS environment
5. Explain the internal architecture of 80196 family controller
Or
6. Explain the addressing modes of 68HC11 microcontroller with an example for each
7. Explain the interfacing of a stepper motor in an embedded system environment assuming a suitable application.
Or
8. Explain a one-pass assembler.

(4X10=40 marks)

