Seventh Semester B.Tech. Degree Examination, November 2015
(2008 Scheme)
08.716: EMBEDDED SYSTEMS (TA)

Time: 3 Hours
Max. Marks: 100

PART-A

Answer all questions. Each question carries 4 marks.

1. Write short notes on UART.

2. Explain the functions of an Embedded System.

3. Discuss about synchronous communication from serial devices.

4. Write notes on cross compiler.

5. Distinguish between preemptive and non preemptive kernel.

6. Discuss about priority inversion problem.

7. Explain remote procedure calls.

8. What is shared data problem?

9. Discuss the features of an RTOS.

10. Illustrate the use of a semaphore.

(10x4=40 Marks)
PART - B

Answer any two questions from each Module.

Module - I

11. Discuss about the different Device I/O types with eg.
12. Write notes on HDLC protocol.
13. Briefly discuss about the different high speed buses.

Module - II

14. Write brief notes on macros, functions and pointers.
15. Discuss about memory management and device management.
16. Explain about nested and non-nested ISRS.

Module - III

17. Discuss about semaphores, events and message queues.
18. Explain about any two scheduling models.
19. Describe the use of mailboxes and remote procedure calls.  (6x10=60 Marks)