Code No: H6803/R13

M. Tech. II Semester Supplementary Examinations, May-2017

EMBEDDED REAL TIME OPERATING SYSTEMS

(Common to VLSI&ES, ES&VLSI, VLSID& ES, ES&VLSID, DECS, E&CE and DECE)

Time: 3 Hours   **Max. Marks: 60**

Answer any FIVE Questions
All Questions Carry Equal Marks

1. a Explain Handling of Interrupt source calls.
    b Discuss the RTOS Task scheduling Models.

2. a Discuss the OS Security issues.
    b Explain the memory management in detail.

3. a Discuss the different types of RTOS for embedded system.
    b Explain programming concepts of windows CE.

4. a Explain the case study of coding for sending application layer byte stream on a TCP/IP network using RTOS Vx works.
    b Draw and explain the smart card hardware

5. a Discuss the Porting RTOS on a Microcontroller based Development board.
    b Explain System programming.

6. a Discuss the case study of embedded system of mobile phone software for key inputs.
    b Draw and explain ACC Hardware Architecture.

7. a Explain Off-the-shelf operating system.
    b Explain the use of Semaphore and write the program.

8. a Give the overview of RT Linux.
    b Explain Mutex management.

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