

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

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*Answer any FIVE Questions  
All Questions Carry Equal Marks*

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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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