

Code No: J6803/R16**M. Tech. II Semester Regular Examinations, May-2017****EMBEDDED REAL TIME OPERATING SYSTEMS**

Common to VLSI&ES (68), ES&VLSI (48), VLSID &ES (77), ES &VLSID (81), VLSI (57), VLSID (72), VLSI System Design (61), VLSI & Micro Electronics (76), Embedded Systems (55)

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.
