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Code No: A5503, A7703

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.TECH I SEMESTER EXAMINATIONS, APRIL/MAY-2012

EMBEDDED SYSTEMS CONCEPTS

(EMBEDDED SYSTEMS, EMBEDDED SYSTEMS&VLSI DESIGN)

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

Answer any five questions

All questions carry equal marks

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1.a. Explain the Hardware units in an Embedded Systems. Give examples of Embedded systems.

b. Explain the memory map used in Embedded Systems.

2.a. Explain the serial communication using the I2C.

b. Explain I/O devices and timers in Embedded Systems. Consider one example.

3. Explain different blocks of Device drivers.

4. Explain serial port Device Drivers development procedure.

5. Explain Inter process communication and show how a synchronization of process is achieved.

6. Explain Data sharing by multiple tasks and routines.

7. Explain design cycle and development phases for an embedded systems. Consider one example as a project (i.e Application).

8. What is scoping and how a logic analyzer is used and how Hardware testing is done in Developing Hardware in Embedded Systems.

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