

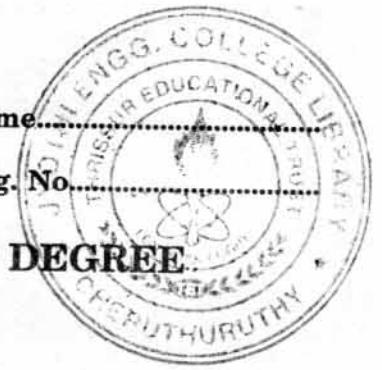
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Name .....

Reg. No. ....

**SIXTH SEMESTER B.TECH. (ENGINEERING) DEGREE  
EXAMINATION, JUNE 2012**

**CS 04 601 - EMBEDDED SYSTEMS**



Time : Three Hours

Maximum : 100 Marks

**Part A**

- I. (a) Briefly discuss about any *two* hardware units.  
(b) Write a note on embedded processors.  
(c) What are advanced buses?  
(d) Explain about memory map.  
(e) Describe about cross compiling.  
(f) What is multi-processor system? Explain.  
(g) What is Mobile OS?  
(h) Brief about synchronization.

(8 × 5 = 40 marks)

**Part B**

- II. (a) Explain in detail about various software components in embedded system.  
*Or*  
(b) Discuss about embedded systems on a chip and use of VLSI circuits.
- III. (a) With the help of block diagram, explain how a DMA controller can be used to transfer data between memory and I/O devices.  
*Or*  
(b) Discuss in detail about types of I/O devices.
- IV. (a) Explain about in the process communication in RTOs.  
*Or*  
(b) Discuss device drivers in detail.
- V. (a) Explain in detail about RTOs structure.  
*Or*  
(b) Discuss in detail about OS securities and issues.

(4 × 15 = 60 marks)