

Code: R7420402

R7**B.Tech IV Year II Semester (R07) Advanced Supplementary Examinations June 2012****EMBEDDED AND REAL TIME SYSTEMS**

(Common to ECE and EIE)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions

All questions carry equal marks

- 1 (a) What is a design metric? Write different design metrics.
(b) Explain about IC technologies.
- 2 (a) Explain about programmers view?
(b) Define the following (i) Assemblers (ii) Debugger (iii) Compiler (iv) Emulator.
- 3 (a) Explain about communication among process.
(b) Write a short notes on concurrent process with example.
- 4 (a) Write types of wireless protocols. Explain IEEE 802.11.
(b) Write a short note on Bluetooth.
- 5 (a) Explain about interrupt service routines in RTO's environment.
(b) Explain task schedulers and Mutex.
- 6 (a) Explain about mailboxes.
(b) Explain in detail about event register.
- 7 (a) Write about real time operating system.
(b) Explain the embedded operating system embedded Linux.
- 8 (a) Write different synthesis and explain in detail about behavioral synthesis.
(b) Write short notes on hardware/software Co-simulation.
