

FACULTY OF ENGINEERING

B.E. 4/4 (CSE) II – Semester (Make-up) Examination, August 2012

Subject : **Real Time Systems (Elective – III)**

Time : 3 hours

Max. Marks : 75

Note: Answer all questions from Part–A and answer any **FIVE** questions from Part–B.**PART – A (25 Marks)**

1. List the applications of Real Time systems. 2
2. What are the important features of PCP? 2
3. What do you mean by one shot time interrupt? 2
4. Define different types of traffic categorization in real time communication. 2
5. Define real time databases. 2
6. How do you achieve safety and reliability in real time environment? 3
7. Define status table and system load table in dynamic allocation of tasks. 3
8. Write about QOS framework in real time communication systems. 3
9. Define 2PL and strict 2PL. 3
10. What are the different types of real time tasks? 3

PART – B (50 Marks)

11. Explain with diagram a basic model of real time systems. 10
12. Explain with diagram clock driven scheduling. Also give example. 10
13. Define clock synchronization and explain centralized clock synchronization in detail. 10
14. Explain hard real time communication in LAN. 10
15. Describe concurrency control in real time databases with a suitable example. 10
16. Write short notes on :
 - a) Rate monotonic algorithm 5
 - b) POSIX 5
17. Write short notes on :
 - a) Buddy algorithm 5
 - b) Resource Reservation Protocol (RSVP) 5
