**Reg. No. \_\_\_\_\_\_\_\_**

**Karunya University**

**(Karunya Institute of Technology and Sciences)**

(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

**Supplementary Examination - June 2011**

**Subject Title: REAL TIME SYSTEMS Time: 3 hours**

**Subject Code: 10CS304 Maximum Marks: 100**

**Answer ALL questions (5 x 20 = 100 Marks)**

1. **Compulsory**:

a. Explain about the challenges in validating timing constraints in priority driven systems.

(16)

b. Distinguish dynamic system and static system. (4)

2. Write short notes on average response time for aperiodic jobs. Explain about the slack stealing with example.

(OR)

3. Explain about the dynamic scheduling algorithm with example.

4. Explain about the basic priority inheritance protocol with different rules associated with that.

(OR)

5. Write brief notes on sporadic servers.

6. Explain about the basic priority ceiling protocol with different rules associated with that.

(OR)

7. What is the meaning of non pre-emptive critical sections? Explain the advantage of non pre-emptive critical sections with example.

8. Write down the BYZANTINE Algorithm. And write short notes on Malicious Failures.

(OR)

9. Distinguish hard ware fault and soft ware fault. And write short notes on Redundancy.