Code No: D7506 **R09**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.TECH II - SEMESTER EXAMINATIONS, APRIL/MAY 2012
DISTRIBUTED CONTROL SYSTEMS
(CONTROL SYSTEMS)

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

Answer any five questions
All questions carry equal marks

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1. List the main features of distributed computer controlled system and explain them with suitable example.

2. (a) Explain the self-tuning algorithms.
   (b) Explain the distributed processing.

3. (a) Explain the concept of optimization and parameter estimation.
   (b) Explain the closed-loop co-ordinate strategies.

4. (a) With help of block diagram explain the self-tuning adaptive control.
   (b) Draw the block diagram of the supervisory control and explain.

5. (a) Explain the damage confinement and assessment.
   (b) Explain the process involved in real-time software construction.

6. What are the main segments in software design? Explain the each segment with a suitable diagram.

7. (a) What are the different ways of knowledge representations? Explain.
   (b) Define a multilayer hierarchical structure. Explain with help of block diagram.

8. Write shorts on the following:
   (a) Task co-operation and communications.
   (b) MASCOT.
   (c) Task scheduling and dispatching.

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