

Assignment-2

Attempt all question. Please answer the following questions in your own language.

1. What is real time system? Explain its various components with suitable examples.
2. What is digital control? Explain with an example how single and multi rate systems are sampled?
3. What are different timing characteristics in real time system?
4. How the complex control law computation is done in complex system through deadbeat control and Kalman Filter?
5. Explain radar signal processing and tracking system?
6. Differentiate between hard and soft real time system?
7. What are different temporal parameters in workload model?
8. Explain different types of task and its parameters in real time system?
9. How the precedence constraints and data dependency effect the execution time of real time system?
10. What is scheduling and it basic assumption to design any real time system?