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Question Paper Code: 44522

B.E. / B.Tech. DEGREE EXAMINATION, AUGUST 2021

Fourth Semester

Electronics and Communication Engineering

14UEI422–LINEAR CONTROL ENGINEERING

(Regulation 2014)

Duration: 1:45 hour

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1. Write Mason's Gain formula.
2. List the basic properties of signal flow graph.
3. Why derivative controller is not used in control systems?
4. List the time domain specifications.
5. List out the different frequency domain specifications.
6. Define Phase cross over and Gain cross over frequency.
7. How the roots of characteristic are related to stability?
8. Define Relative stability. What is the necessary condition for stability?
9. What are the advantages of State Space analysis?
10. State the reason for using state space analysis rather than using transfer function method.
11. What do you mean by an open loop control system?
12. Write Mason's gain formula and its purpose.
13. Why are test signals needed?

