Total No.	of	Questions:10]
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Roll No

EC - 505

B.E. V Semester

Examination, December 2012

Communication Network And Transmission Lines

Time: Three Hours

Maximum Marks: 70/100

Note: 1. Attempt one question from each unit.

2. All questions carry equal marks.

Unit - I

- a) Determine the image impedance, iterative impedance and characteristic impedance of symmetrical two port network.
 - b) Discuss the design of symmetrical attenuators. Also discuss their working principle.

OR

- 2. a) Differentiate between image transfer coefficient and iterative transfer coefficient.
 - b) Discuss the different matching techniques.

Unit - II

- 3. Discuss the designing of following filters:
 - a) m-derived filters.
 - b) Chebyshev approximation.

OR

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- 4. Discuss the designing of the following filters:
 - a) Composite filter.
 - b) Butterworth approximation.

Unit-III

- 5. a) Explain briefly about Foster and cancer network.
 - b) What is Bott Duffin method? Explain.

OR

- 6. a) What do you understand by minimum positive real function?
 - b) Explain Brune's method.

Unit-IV

- 7. a) Explain briefly about attenuation and phase equalizers.
 - b) Discuss briefly about the T and Z equivalents of a line.

OR

- 8. a) Explain briefly about open circuit and short circuit line.
 - b) Discuss about the different losses in transmission lines.

Unit - V

- 9. Write short notes on the following:
 - a) SWR
 - b) Double stub matching

OR

- 10. Write short notes on the following:
 - a) Quarter wave line.
 - b) Microstrip lines.

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