## EC - 505 B.E. V Semester

## Examination. December 2012

## Communication Network And Transmission Lines

Time: Three Hours Maximum Marks: 70/100

Note: I. Attempt one question from each unit. 2. All questions carry equal marks.

## Unit -1

- 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 work ing principle.

OR

- 2. a) Differentiate between image transfer coefficient and iterative transfer coefficient.
- b) Discuss the different mulching techniques. Unit-II
  - 3.Discuss the designing of following filters:
    - a)m-derived filters.
    - b)Chcbyshev approximation.

OR

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

Unit- III

- 5. a) Explain briefly about FotS and cancer network
- b) What is Boll Duftin method Explain.

or

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

Unit-IV

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

OR

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- 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.