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**EC-505**

**B.E. V Semester**

Examination, December 2016

**Communication Network and Transmission Lines**

*Time : Three Hours*

*Maximum Marks : 70*

- Note:* i) Attempt any five questions out of eight.  
ii) All questions carry equal marks.

1. a) Differentiate between Image impedance and iterative impedance. 7  
b) Discuss characteristics preparation co-efficient and Image transfer co-efficient. 7
2. a) Explain Lattice and Bridged T-networks. 7  
b) Discuss symmetrical and asymmetrical attenuators. 7
3. Discuss passive LC filters. 14
4. Explain LC, RL, RC and RLC network synthesis. 14
5. Explain T and  $\pi$  equivalents of a line. 14

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6. a) Discuss parameters of line and co-axial cable at Radio frequencies. 7  
b) Discuss standing waves. 7
7. Explain the microstrip lines and its analysis. 14
8. Write short notes on any two: 14  
a) Standing wave ratio.  
b) Quarter wave and wave line.  
c) Foster and cauer networks.

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