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NETWORK FILTER AND TRANSMISSION LINES 4th Exam/ECE/3061/Jan/2022 (FOR 2018 BATCH ONWARDS)

Duration: 1.15Hrs. M.Marks:25

SECTION-A

Q1. Attempt any three questions.

3x5=15

- i. Differentiate between Symmetrical and Asymmetrical networks with diagram.
- ii. What are attenuators? Explain with example.
- iii. What Is a Lossless line? Also write the condition for the line to be Lossless.
- iv. Derive the relation between Decibel and Neper.
- v. Describe insertion losses in 2-Port networks
- vi. Write the properties of asymmetric networks.
- vii. Differentiate between one port and two port network.

SECTION-B

Q2. Attempt any one question.

1x10=10

- a. What do you mean by LPF, HPF, BPF and BSF? Explain with suitable examples.
- b. What are standing waves? Derive the relation between VSWR and reflection coefficient K.
- c. Differentiate between Active and Passive filters.
- d. Explain different types of Transmission Lines. Also write their applications.