

S. B. Roll. No.....

NETWORKS, FILTERS & TRANSMISSION LINES
4th Exam/ECE/3061/Jun'2021
(For 2018 batch onwards)

Duration: 1.15Hrs.

M.Marks:25

SECTION-A

Q1. Attempt any three questions.

3x5=15

- i. What are the advantages of m-derived filter?
- ii. Derive the relationship between decibel and neper?
- iii. How filters are classified? What are their uses?
- iv. Write a short note on VSWR?
- v. What are symmetrical networks? What are conditions for it?
- vi. What are the uses of attenuators?
- vii. What is reflection in Transmission lines?

SECTION-B

Q2. Attempt any one question.

1x10=10

- a. Draw and explain working of crystal filters?
- b. Explain the following terms :
 - a) Image impedance b) Iterative impedance
 - c) Image transfer constant d) Iterative transfer constant
- c. Explain various types of transmission lines along with their application?
- d. Explain the concept of working of Low pass and High pass filters.