

Code No: 54019

R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech II Year II Semester Examinations, July/August - 2021

PRINCIPLES OF ELECTRICAL ENGINEERING

(Electronics and Communication Engineering)

Time: 3 hours

Max. Marks: 75

Answer any five questions  
All questions carry equal marks

- 1.a) Derive an expression for transient current flowing in a RC series circuit when it is excited by a D.C source suddenly.  
b) Solve for the current  $i(t)$  in the RLC network shown in figure 1. [7+8]

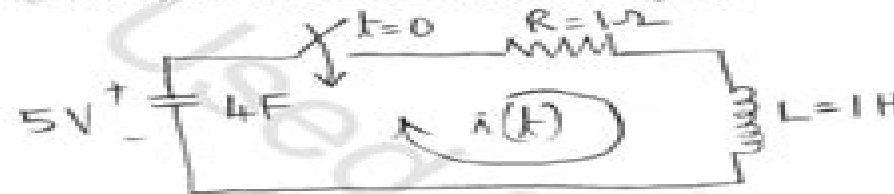


Figure: 1

- 2.a) Obtain the ABCD parameters of the network shown in figure 2.

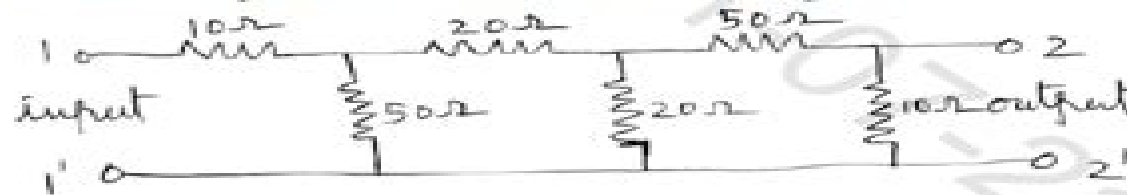


Figure: 2

- b) Discuss the parallel and cascaded configurations of two port networks. [8+7]
3. Briefly describe the design of following types of filters.  
a) Constant K high pass filter  
b) m-derived T section filter  
c) Band pass filters. [5+5+5]
4. Explain the design considerations of  $\pi$ -type attenuator and bridged T type attenuator. [15]
- 5.a) What are the types of DC generators? Draw the circuit diagrams indicating the voltage and current relations.  
b) Explain the magnetization and load characteristics of DC shunt generator. [7+8]

# Fet College Question Paper For Electrical

**JE Gale**



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