

Triumphant College



Test I

SCHOOL	ENGINEERING		
DEPARTMENT	ELECTRICAL AND ELECTRONICS ENGINEERING		
SUBJECT	ELECTRICAL ENGINEERING II		
SUBJECT CODE	EEN201 (CERTIFICATE LEVEL 5)		
DATE	19 April 2021		
DURATION	2h00	MARKS	25

EXAMINER(S):

MR ISAK GABRIEL

INSTRUCTIONS

1. Answer all the questions.
2. Maintain question numbering in your answer sheet.
3. This is an individual assignment.
4. **All submissions should be in PDF.**

THIS DOCUMENT CONSISTS OF [2] PAGES, INCLUDING THE COVER PAGE

1. In the bridge circuit of **Fig. 19.87**, $I_1 = 10\text{ A}$ and $I_2 = 4\text{ A}$ **[10 MARKS]**
- Find V_1 and V_2 using y parameters.
 - Confirm the results in part (a) by direct circuit analysis.

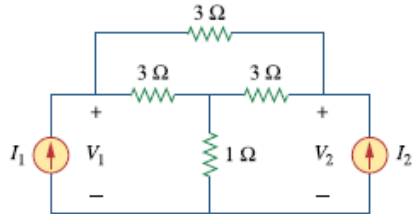


Figure 19.87

2. Find the h parameters for the networks in **Fig. 19.88** **[10 MARKS]**

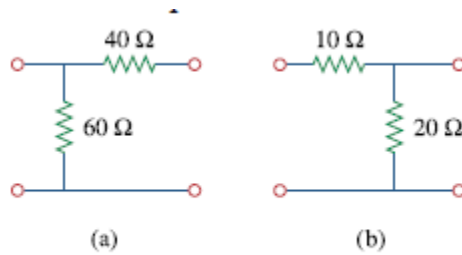


Figure 19.88

3. State the reason why AC transmission lines is mostly used compared to DC transmission lines. **[5 MARKS]**