Admission Test Smaple Question

BRAC University

M.Sc/M.Engg in Electrical & Electronics Engineering Semester: Year:

Name:	ID:
Seat No.:	

<u>Instructions</u>

- Total duration for the exam is 1 hour
- There are two sections in the question
- Students have to pass each section separately
- Answer each question within the space provided in this question booklet
- No additional page will be provided

Marks Distribution		Marks Obtain
Section 1	30	
Section 2	30	
Total	60	

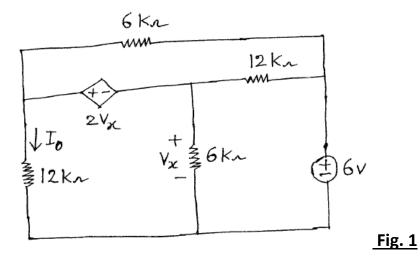
- Adoption of any unfair means in the examination hall will make the candidate disqualified for admission.
- Please do not turn over the page until you are asked to do so.

[15]

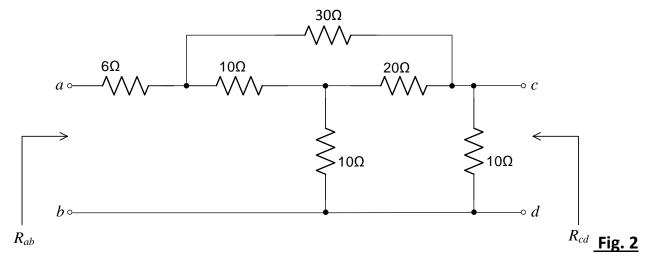
Section 1

PART A (Total number of questions in this part is TWO (2); answer any ONE (1) question)

1. Use Node analysis to find the current I_o as shown in Fig. 1.

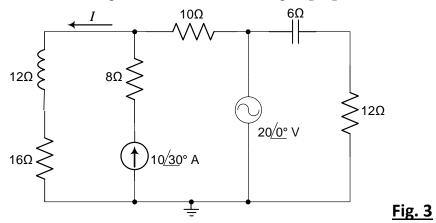


2. Find out the equivalent resistances R_{ab} and R_{cd} as indicted in the figure shown below using Δ -Y or Y- Δ conversion. [15]



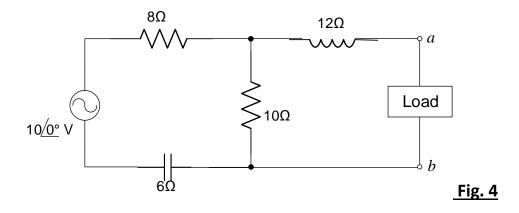
PART B (Total number of questions in this part is TWO (2); answer any ONE (1) question)

3. For the network shown in Fig. 1, find the current *I* using **Superposition Theorem**. [15]



4. Consider the following network shown in Fig. 4.

- [15]
- a) Find the Thevenin's equivalent circuit between the terminals a and b.
- b) Find the load impedance for which maximum power will be transferred to the load.



Section 2

Write an English composition of 200 to 250 words on the topic given below:

"Being an extrovert is a prerequisite in order to have a successful career." Do you agree or disagree with the given statement? Explain your views with relevant examples.