

Kafrelsheik University
Faculty of Engineering
Electrical Engineering Department
Final 2nd Term Exam 2016-2017, 2nd Year

Subject: electric test Time Allowed: 3 hours Examiner: Dr.S.Gharib Date: 25 / 5 / 2017

Answer all questions:

Q1 10 marks

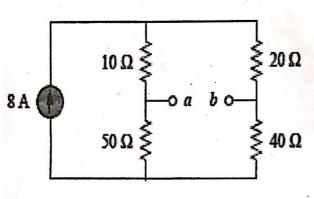
What is a Zener ? mention its application and describe a laboratory test to find its characteristics.

Q2 10 marks

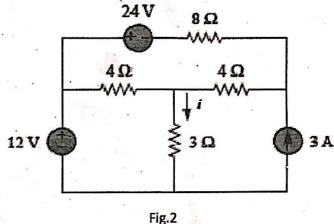
- The four category of passive filter are......and.....and......
- A transformer is a device to sepor.....or.....
- Light sensors such as.....
- In ac circuit we can useas a voltage divider .
- -....state that any linear network could be replaced with a single source in series with a resistor.
- Afilter can reject a band of frequencies.

Q3 10marks

- a) For the circuit of fig.1 find Thevenin equivalent ct at terminals a-b of the circuit
- b) For the circuit shown in Fig .2 use the superposition theorem to find i.







Q4 10 marks

Explain how you can know the type of filter and how you can estimate the filter cut off frequency.

Q5 10 marks

With a laboratory test explain how you can construct a voltage divider for ac circuit.

Q6 10 marks

Explain how you can verify superposition theorem in laboratory.