



COMSATS Institute of Information Technology Vehari

Department of Computer Science

Final Examination – Spring 2018

Class: BSSE-B10

Subject: Electric Circuit Analysis

Time Allowed: 180 min.

Name: AHMED IQBAL

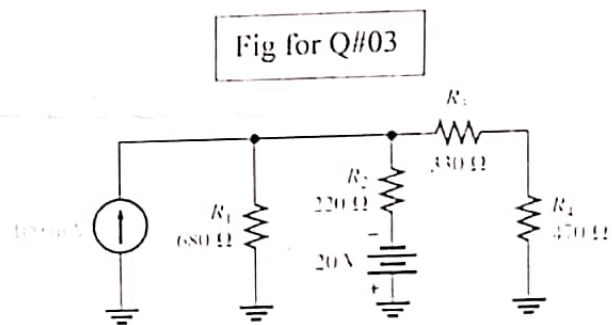
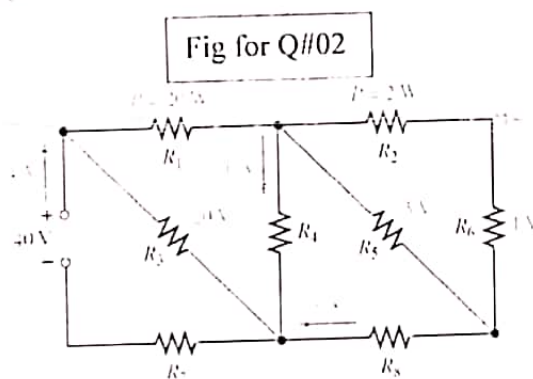
Date: 05-06-2018

Instructor: M. Rehan Ashraf

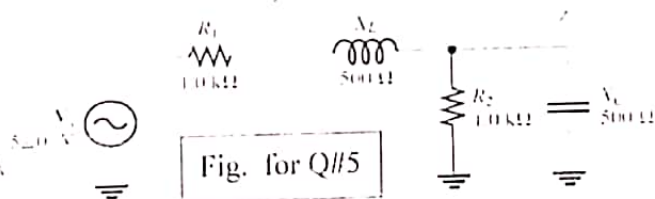
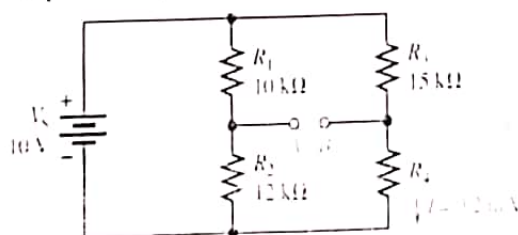
Max Marks: 50

Registration # SPI8-BSE-002

- Q#01: a) Discuss the working principle of a Super heterodyne receiver. (5)
b) Define the selectivity and quality factor of a series RLC circuit. (2)
c) Sketch the inductive reactance and capacitive reactance as a function of frequency. (5)
d) What is the main difference between apparent power and true power? (2)
e) Why a crow sitting on a live wire is not electrocuted? (1)
f) A man holding 11KV in his hand, under all circumstances is he feel any shock. (2)
g) Discuss the working principle of a tuned amplifier in detail. (3)
- Q#02: Find the voltage drop and current through each resistor in the figure given below (8).
- Q#03: Find the current through the R_4 resistor in the figure given below. (8)



- Q#04: Determine the Thevenin equivalent as seen from terminals A and B. (7)
- Q#05: In the circuit given below find the total impedance, total current and voltage across each component. (7)



1 of 1

17-05-18
GOOD LUCK
Head of Department
Department of Computer Science
Rajmold