



Daffodil International University

Department of Computer Science and Engineering

Faculty of Science and Information Technology

Mid Term Examination, Semester: Fall- 2017

Course Code: CSE 132 Course Title: Electrical Circuits

Section: All Course Teacher (Initial): All

Time: 1.5 Hours

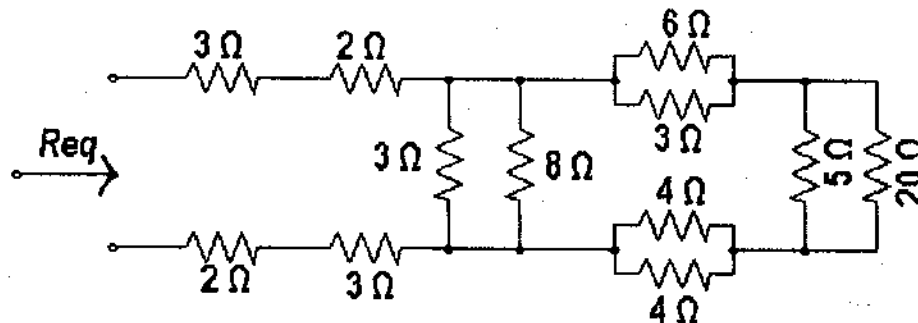
Full Marks: 25

Answer any 5 questions from questions 1 to 6

Question No. 1

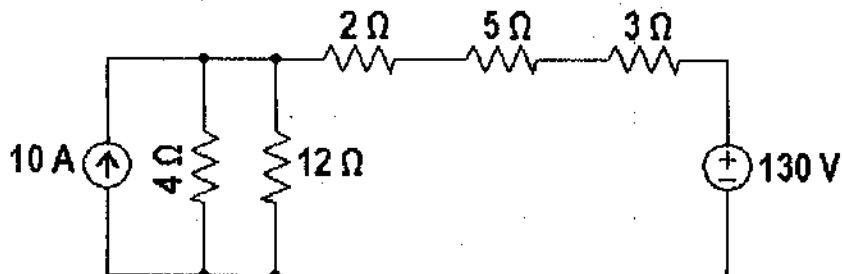
Calculate the equivalent resistance R_{eq} for the following circuit.

5



Question No. 2

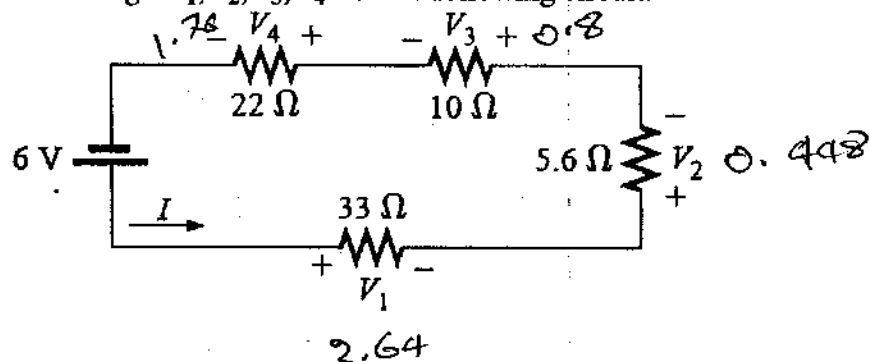
Using Superposition theorem, determine the current through 5-Ω resistor for following circuit. 5



Question No. 3

Determine Current I and voltage V_1, V_2, V_3, V_4 for the following circuit.

5



0.256

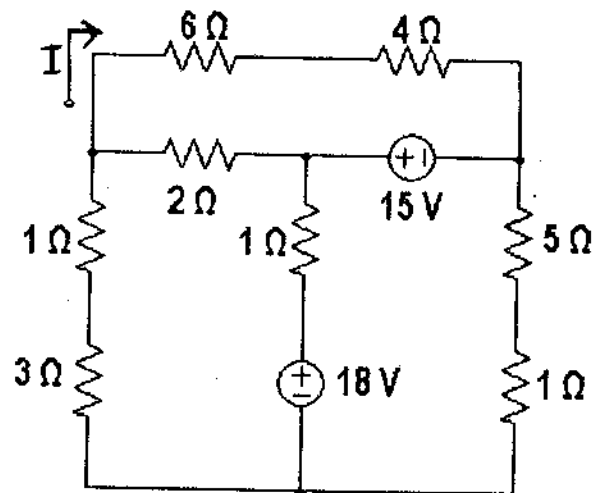
0.96

0.1998

Question No. 4

Using Mesh analysis, determine loop currents for the following circuit. Also determine the branch current I .

5



-1.346

Question No. 5

Find the Thevenin's equivalent circuit for the network to the resistor R_L of Fig. 5.

5

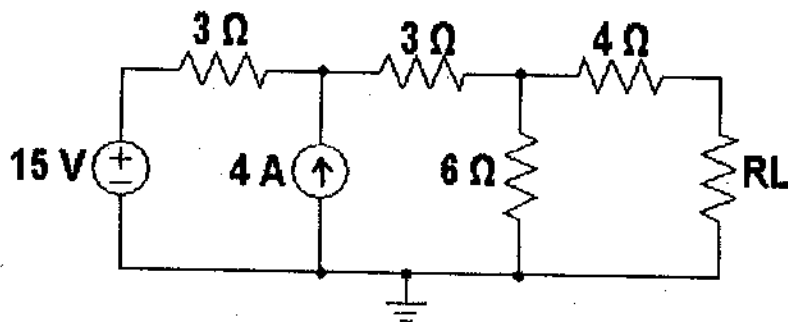


Figure 5

Question No. 6

Using nodal analysis, find out the node voltages for the following circuit.

5

