Write short notes on: (Any two) 2×5

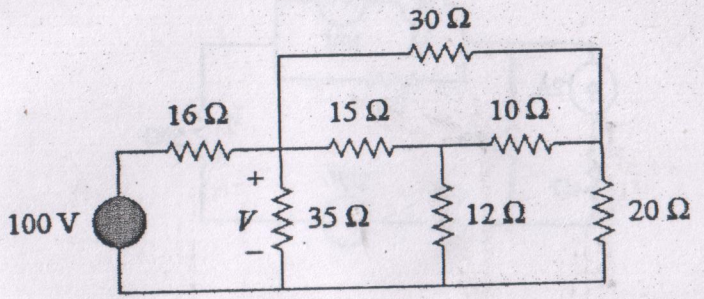
a) Role of electricity in modern society.
b) Losses in transformer.
c) Quality Factor and Band Width.

POKHARA UNIVERSITY

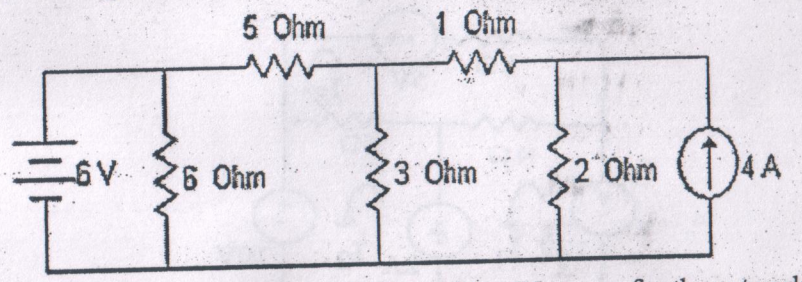
Level: Bachelor Semester: Spring Year : 2014
Programme: BE Full Marks: 100
Course: Basic Electrical Engineering Pass Marks: 45
Time : 3hrs.

Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.
Attempt all the questions.

1. a) Obtain the equivalent resistance and use it to find source current for the circuit shown below. Also find V. 7



b) Applying Superposition theorem, calculate the current in 5Ω resistor of circuit given below. 8



2. a) Calculate the power absorbed/ delivered by 6V source for the network shown in Fig. using nodal analysis. 7