

Code No: 53002

R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech II Year I Semester Examinations, November/December - 2018

BASIC ELECTRICAL AND ELECTRONIC ENGINEERING

(Biotechnology)

Time: 3 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

1. a) Obtain the relationship of R, L and C for passive elements.
b) Find all branch currents in the network shown in the figure1.

[7+8]

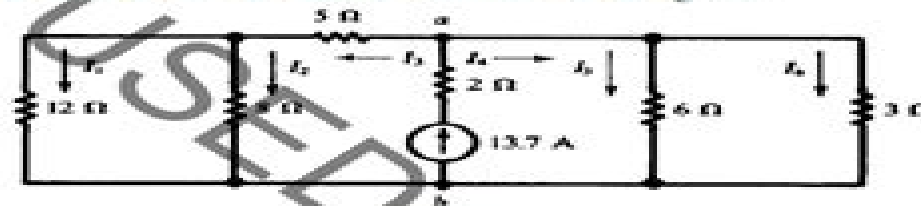


Figure: 1

2. a) Define RMS value and Average value of sinusoidal quantity.
b) In the circuit shown in figure 2 $R_1=1.5\Omega$, $R_2=5.6\Omega$, $R_3=7\Omega$, $X_{L1}=3.4\Omega$, $X_{C1}=6.5\Omega$, $X_{C2}=4.7\Omega$, $X_{L3}=8.2\Omega$.

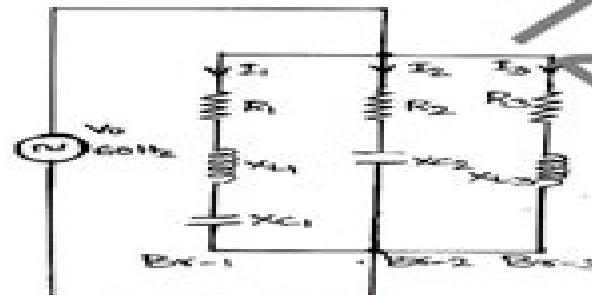


Figure: 2

Assume $V_0=100V$, $f=60Hz$, find the equivalent conductance, susceptance and admittance of the given circuit. What is the supply current and the power factor?

[5+10]

3. Two wattmeters give a reading of $W_1=1500W$ and $W_2=2150W$ when connected to a delta load to measure power by two wattmeter method. If line voltage is 220V, what is (a) the per phase average power (b) per phase reactive power (c) power factor and (d) phase impedance?

[15]

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