Sessional- I
Branch: CSE
Course Code: BT EE 103A
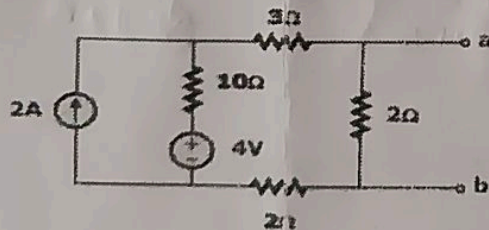Course Title: Basic Electrical Engineering

Max Time: 1 Hours
Max Marks: 20

Que. 1
A) What do you mean by Resonance.
B) Differentiate between ideal source and practical source.
C) Draw equivalent circuit of Thevenin's theorem.
D) Define Quality factor and Form factor.
E) Distinguish between a phasor and a complex quantity.

$I_2 = 160 - I_1$

Que. 2 In the circuit of Fig., find R and C. Given Vb = 3Va and Vb and Va are in quadrature. Find also the phase relation between V, Vb , Va and I.

Que.3 By using Kirchhoff's laws, find the current in XY in the circuit shown in Figure

$I_1 + I_2 = 110$

Que.4

Find the Norton equivalents of the following circuit at terminal a-b.