BALOCHISTAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY KHUZDAR

DEPARTMENT: EED EXAMINATION: Final Term 2021

SUBJECT: Electrical Network Analysis CODE: EE- 211

SEMESTER: B.E(3rd Semester) Max: Marks: 50

Time Allowed: 2 hour : 20 minutes

Note: Attempt All questions

Q.NO	Description	Marking Scheme	CLO / PLO	Bloom
1.	**Explain** the difference between Impedance and Admittance. Find the current and the voltages across each element in Figure 1. Express each quantity also in polar form**.**	10	CLO-2 PLO-2	C-3
2.	State and **explain** the term Resonance, resonant frequency and prove that $X_L = X_C$. Determine the Conductance, Capacitive Susceptance, Inductive Susceptance, Total Admittance and Total Impedance of Figure 2.	10	CLO-2 PLO-2	C-3
3.	Define and draw the Step Signal, Impulse Signal and Exponential Decaying Signal. **Find** the Laplace Transform of the signal f(t) = $\{e^{5t} * e^{2t} * e^{3t} * e^{-5t}\}$	10	CLO-1 PLO-2	C-1
4.	**Find** the $v_0(t)$ in the circuit of Figure 3, assuming zero initial conditions	10	CLO-1 PLO-2	
5.	State and **explain** the Z-parameters with basic equations, also Find the Z-parameters of the circuit given in Figure 4	10	CLO-2 PLO-2	C-3

THE END

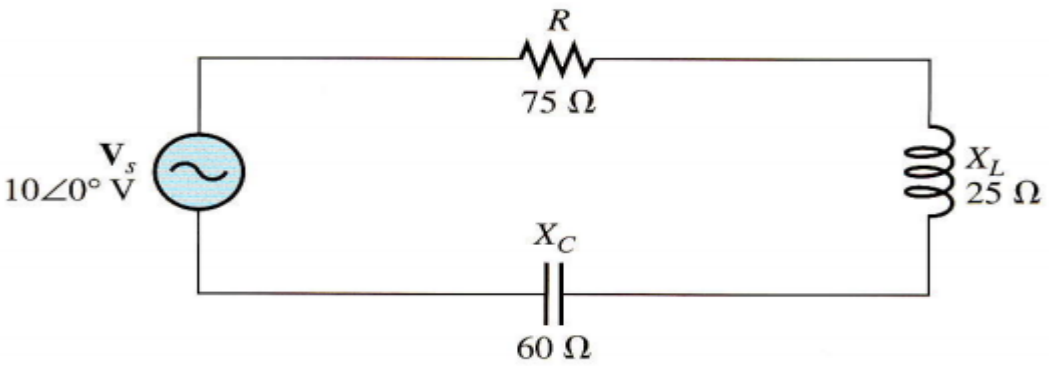

Figure 1

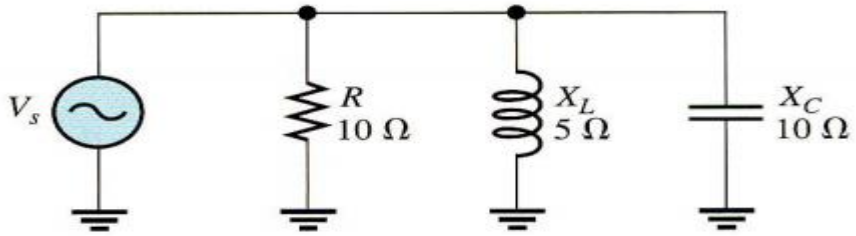

Figure 2

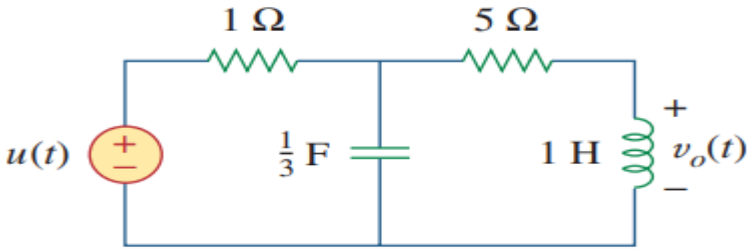

Figure 3

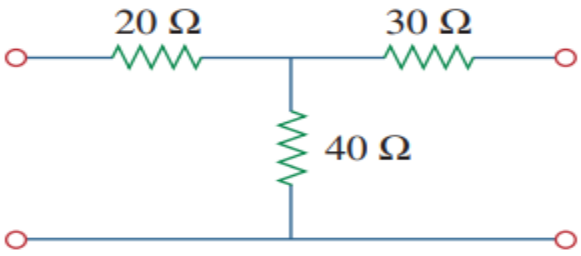

Figure 4