BALOCHISTAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY KHUZDAR

DEPARTMENT: EED EXAMINATION: Mid Term 2021

SUBJECT: Electrical Network Analysis CODE: EE-211

SEMESTER: B.E(3rd Semester) Max: Marks: 20

Time Allowed: 40 Minutes

Note: Attempt All questions

Q.NO	Sub Q	Description	Marking Scheme	CLO/PLO	Bloom
1		**Define** the term Impedance, Admittance, Active Power, Reactive Power and Power Triangle	10	CLO-1 PLO-2	C-3
2.		Calculate the Laplace Transform of the following functions. (i) $F(t) = e^{-3t}$ (ii) $f(t) = \sin 3t$	5	CLO-1 PLO-1	C-1
3.		Explain the Resonance Circuit and derive the Resonant Frequency	5	CLO-1 PLO-1	C-1

THE END

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 STAR and DELTA connections. 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.	Calculate the Impedance, Admittance, Conductance, and Capacitive Susceptance of Figure 2.	10	CLO-2 PLO-2	C-3
3.	State and **explain** the Z-parameters with basic equations, also Find the Z-parameters of the circuit given in Figure 3	10	CLO-1 PLO-2	C-1
4.	State and **explain** the loop and Node analysis, also calculate the current through 20 ohm resistor using Nodal Analysis as shown in Figure 4.	10	CLO-1 PLO-2	C-1
5.	Explain brief description of Two port Network, Series and Parallel Resonance, Initial Conditions, Poles and Zeros, and Fourier Series	10	CLO-2 PLO-2	C-3

THE END

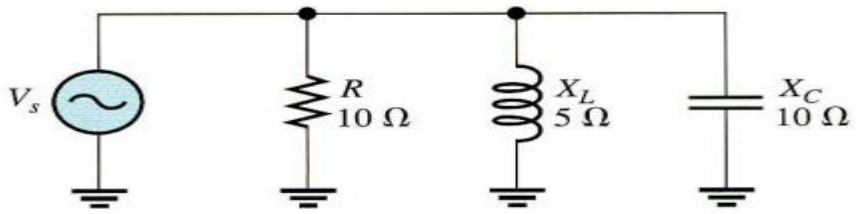

Figure 2

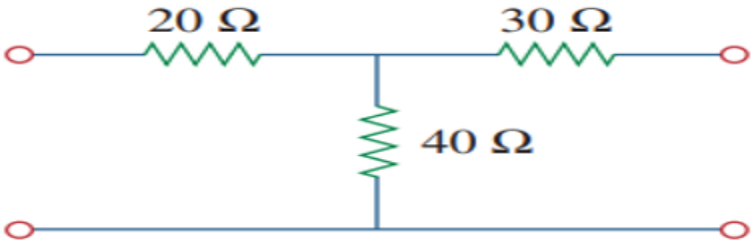

Figure 3

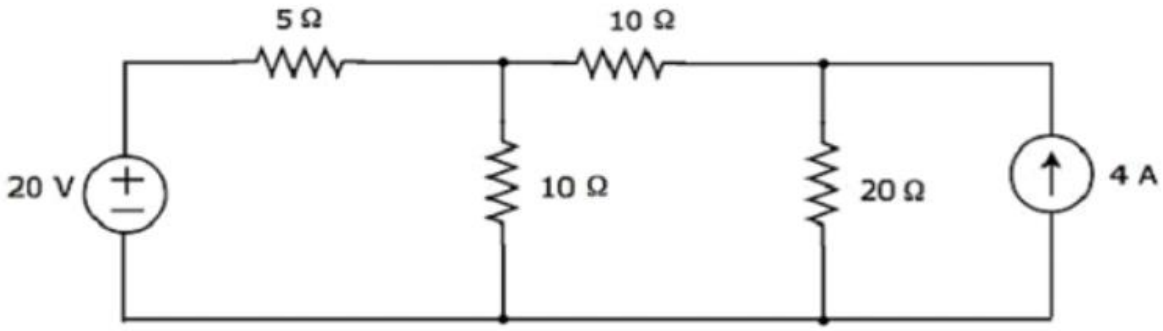

Figure 4