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|  | **BALOCHISTAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY KHUZDAR** |

DEPARTMENT: EED EXAMINATION: Final Term 2021

SUBJECT: Electrical Network Analysis CODE: EE- 211

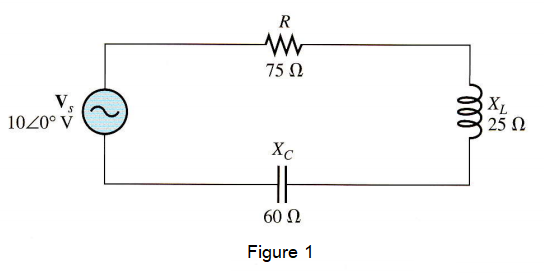
SEMESTER: B.E(3rd Semester) Max: Marks: 50

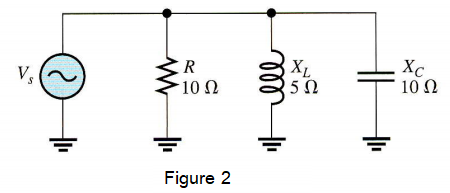
Time Allowed: 2 hour : 20 minutes

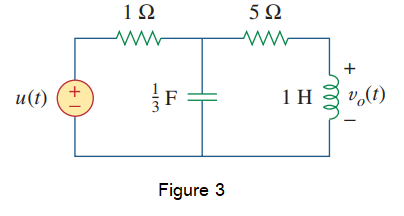
Note: Attempt All questions

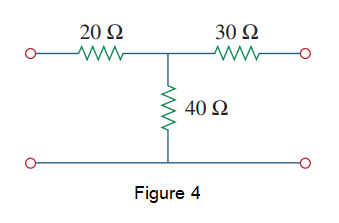
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| **Q.NO** | **Description** | **Marking Scheme** | **CLO / PLO** | **Bloom** |
| 1. | **Explain** the difference between Impedance and Admittance. Find the current and the voltages across each element in Figure 1. Express each quantity also in polar form**.** | 10 | CLO-2  PLO-2 | C-3 |
| 2. | State and **explain** the term Resonance, resonant frequency and prove that XL = XC. 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) = {e5t\* e2t\* e3t\*e-5t} | 10 | CLO-1  PLO-2 | C-1 |
| 4. | **Find** the v0(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***

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