

DEPARTMENT: BMED EXAMINATION: Final Term 2023

SUBJECT: Circuit Analysis CODE: EE- 121

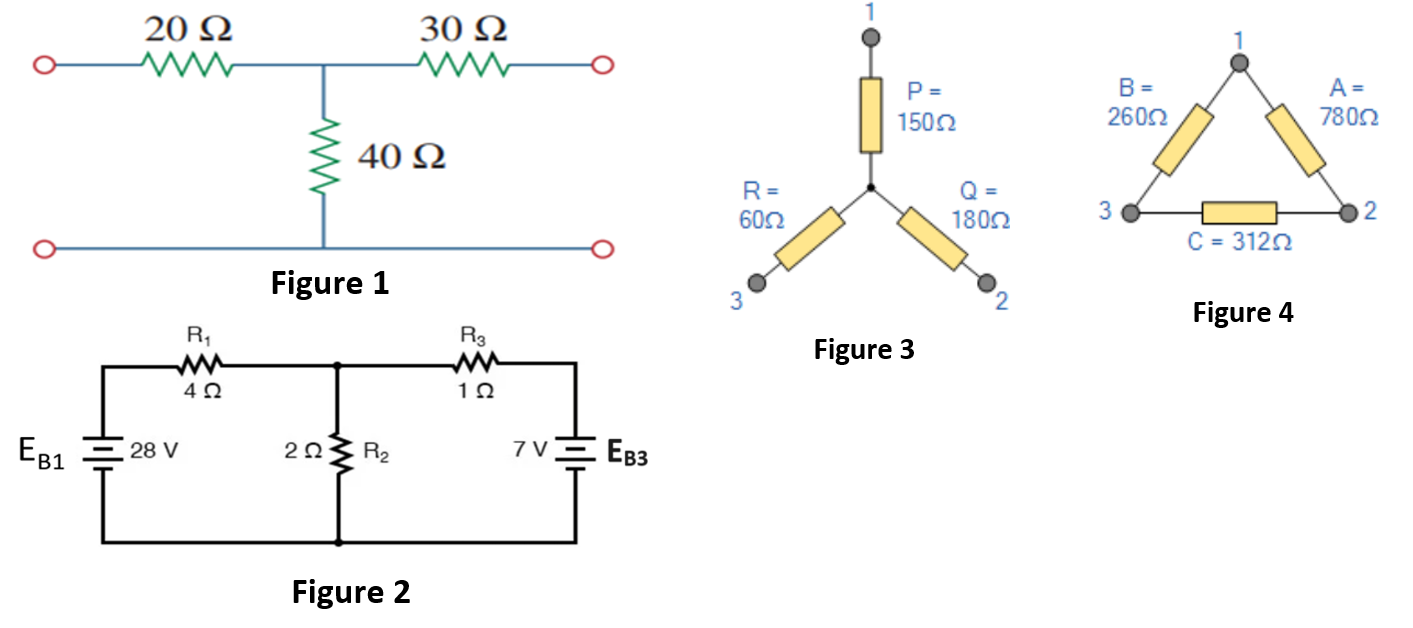
SEMESTER: B.E(2nd Semester) Max: Marks: 50

Time Allowed: 03 hours

Note: Attempt All questions

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| **Q.NO** | **Description** | **Marking Scheme** | **CLO / PLO** | **Bloom** |
| 1. | State and **explain** the Z-parameters with basic equations, also Find the Z-parameters of the circuit given in Figure 1. | 10 | CLO-2  PLO-2 | C-3 |
| 2 | **Define** Operational Amplifier and also explain an operational amplifier working as a Summer and a Subtractor with suitable circuit diagrams. | 10 | CLO-2  PLO-2 | C-3 |
| 3 | Write a short **note** on the following   1. Source Transformation 2. Ideal Transformer 3. Power Factor and Power Triangle 4. Transient Response 5. Superposition Theorem | 10 | CLO-2  PLO-2 | C-3 |
| 4 | Apply the Millman's Theorem on the below circuit of Figure 2. **Calculate** the currents across. | 10 | CLO-1  PLO-2 |  |
| 5 | 1. **Convert** STAR to DELTA, find the DELTA equivalent circuit as shown in Figure 3. 2. **Convert** DELTA to STAR find the STAR equivalent circuit as shown in Figure 4. | 10 | CLO-2  PLO-2 | C-3 |

***THE END***

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