

School of Electrical Electronics and Communication Engineering

Electrical Engineering

ETE - Jun 2023

Time : 3 Hours

Marks : 50

SEM VI - BEE02T4001 - Electrical Design Estimation and Energy Audit

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

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| 1. | Illustrate the organizing approach of energy audit. | K2 CO1 (2) |
| 2. | Illustrate earthing fundamentals. | K2 CO1 (2) |
| 3. | Illustrate the energy management control system. | K1 CO1 (2) |
| 4. | Illustrate earth grid. | K1 CO1 (2) |
| 5. | Emphasize the general requirements of electrical installations. | K2 CO1 (2) |
| 6. | Indicate the steps involved to conduct an effective audit. | K4 CO3 (6) |
| 7. | Illustrate the importance of audit report. | K3 CO2 (5) |
| 8. | Illustrate the basic components of well-organized audit report. | K3 CO2 (5) |
| 9. | Depict and illustrate following types of electrical earthing in detail.
TN
TN-S
TN-C
TN-C-S
TT
IT | K5 CO4 (8) |
| 10. | Illustrate the batten and conduit wiring with their advantages and disadvantages. | K4 CO4 (8) |
| 11. | Illustrate Energy efficient motors in detail. | K5 CO4 (8) |