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School of University Polytechnic**Diploma in Electrical Engineering
Mid Term Examination - Nov 2023****Duration : 90 Minutes
Max Marks : 50****Sem III - N1DI301T - Electrical and Electronics Engineering Materials**General Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Clarify the term: inductors. K2 (2)
- 2) Define the transistors and properties. K1 (3)
- 3) Discuss hard ferrites and uses. K2 (4)
- 4) Describe the mineral and insulating oil for transformer and uses. K2 (6)
- 5) Write a note on the properties of conducting material. K3 (6)
- 6) Determine the properties of semiconducting material. K3 (9)
- 7) Outline the properties of insulating material with examples. K4 (8)
- 8) Focus on the uses of mercury as conducting material. K4 (12)

OR

- Focus on alloying and mechanical stressing in conducting materials. K4 (12)