

School of University Polytechnic

**Diploma in Electrical Engineering
Summer/Backlog Semester End Examination -
Jul 2024**

**Duration : 180 Minutes
Max Marks : 100**

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

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| 1) | What is resistivity. | K1(2) |
| 2) | Outline the super conductivity and super conducting materials. | K2(4) |
| 3) | Express the polyvinyl chloride (P.V.C.) and their application and tell the commercial names. | K2(6) |
| 4) | Illustrate the low resistivity copper alloys. | K3(9) |
| 5) | Write the different soldering material used in electric system. | K3(9) |
| 6) | Evaluate the steel used in transformer. | K5(10) |
| 7) | Compare different magnetic properties. | K4(12) |
| 8) | Examine the classification of magnetic materials into soft and hard magnetic materials. | K5(15) |
| 9) | Assess the properties of semiconductor material. | K5(15) |
| 10) | Explore the material used for electronic components and applications. | K6(18) |