School of University Polytechnic
Diploma in Electrical Engineering
Mid Term Examination - May 2024

Duration : 90 Minutes
Max Marks : 50

Sem II - N1DI202B - Basic Electrical Engg

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) Explain the application of ohms law. — K2 (2)

2) Define the heating effect of electric current. — K1 (3)

3) Explain the effect of temperature on resistance. — K2 (4)

4) Explain Kirchhoff's current laws. — K2 (6)

5) Illustrate and find the total resistance, current and voltage across each resister in given circuit. — K3 (6)

6) Illustrate the series combination of resistance. — K3 (9)

7) Compare Thevenin's theorem and Norton's theorem. — K4 (8)

8) Analyze Norton's theorem with example. — K4 (12)

OR

Compare and contrast the graphical representations of ideal and practical current sources, emphasizing their differences. — K4 (12)