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**School of University Polytechnic**

Diploma in Civil Engineering  
Mid Term Examination - Nov 2023

Duration : 90 Minutes  
Max Marks : 50

**Sem III - N1DB301T - Elementry Electrical and Mechanical Engineering**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 cut off ratio. K2 (2)
- 2) Define total volume of cylinder. K1 (3)
- 3) Explain bore and stroke. K2 (4)
- 4) Explain mean effective pressure. K2 (6)
- 5) Constuct the figure of knurling and explain the process. K3 (6)
- 6) Constuct the sketch of helical gear and explain the applications of helical gears. K3 (9)
- 7) Classify compressors and explain centrifugal compressor. K4 (8)
- 8) Classify milling machine and explain horizontal milling machine. K4 (12)

**OR**

Inspect that why diesel engines are more efficient than petrol engines? K4 (12)