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School of University Polytechnic

Diploma in Mechanical Engineering

Mid Term Examination - May 2024

Duration : 90 Minutes

Max Marks : 50

Sem II - N1DL202B - Elements of Mechanical EngineeringGeneral 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 thermal power plants K2 (2)
- 2) What is Hydropower ? K1 (3)
- 3) Explain zeroth law of thermodynamics. K2 (4)
- 4) Explain about Combustion of fuels . K2 (6)
- 5) Identify advantages of solar system. K3 (6)
- 6) Identify importance of solar system. K3 (9)
- 7) Compare solid, liquid and gases K4 (8)

- 8) Analyze helical gears and Bevel gears. K4 (12)

OR

- Analyze leaf spring with diagram. K4 (12)