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**School of University Polytechnic****Diploma in Mechanical Engineering  
Mid Term Examination - May 2024****Duration : 90 Minutes****Max Marks : 50****Sem IV - N1DL404T - Machine Tool Tech and Maintenance***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 power transmission of shaper. K2 (2)
- 2) Relate the form tool method. K1 (3)
- 3) What is the benefit of using a jig in machining operations? K2 (4)
- 4) Explain the main difference between turning and milling operations. K2 (6)
- 5) Identify the uses of planer machine tool. K3 (6)
- 6) Construct and discuss the layout of mechanical drive system for oscillating movement. K3 (9)
- 7) State the taper turning operation and what kind of object make from it. K4 (8)
- 8) Classify and discuss the chuck. K4 (12)

**OR**

Explain the different types of mechanical drive systems, such as gear drives, belt drives, and chain drives. K4 (12)