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School of University Polytechnic

Diploma in Mechanical Engineering
Semester End Examination - Jun 2024

Duration : 180 Minutes
Max Marks : 100

Sem IV - N1DL404T - NIDL401T Machine Tool Tech and MaintenanceGeneral 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) What is saddle and table. K1 (2)
- 2) Differentiate between a vise and a clamp for work holding. K2 (4)
- 3) Explain the machining process is used for achieving a smooth surface finish. K2 (6)
- 4) Construct and discuss the single point cutting tool. K3 (9)
- 5) Construct and discuss the boring tool. K3 (9)
- 6) Explain difference between a capstan and turret lathe. Can you perform threading operations on a capstan or turret lathe? K5 (10)
- 7) Differentiate between Systems of stepped and stepless with example. K4 (12)
- 8) Interpret the type of milling cutter is generally used in horizontal milling machine with neat sketch. K5 (15)
- 9) Interpret and classified the positive drive with neat sketch. K5 (15)
- 10) Discuss the functions and applications of boring, reaming, knurling and Draw the line diagram of produced by it. K6 (18)