

NETTUR TECHNICAL TRAINING FOUNDATION
DIPLOMA IN TOOL ENGINEERING & DIGITAL MANUFACTURING-CP01
II SEMESTER REGULAR & SUPPLEMENTARY EXAMINATION-JULY 2023

Subject: Production Technology
Subject Code: CP01206T

Total Time: 2 Hr.
Total Marks: 50

PART B

1.0 ANSWER ANY EIGHT OF THE FOLLOWING

2*8=16

- 1.1 Why lead screw is used in lathe?
- 1.2 Describe the elements of taper.
- 1.3 What do you mean by feed?
- 1.4 Describe the constituents of 18-4-1 high speed steel.
- 1.5 State any four properties of a good cutting fluid.
- 1.6 How to classify milling machines?
- 1.7 List 3 milling cutter materials.
- 1.8 What are the different types of grinding operations?
- 1.9 Why cylindrical grinders are used?
- 1.10 Write any four types of joints in Welding.

2.0 ANSWER ANY SIX OF THE FOLLOWING

3*6=18

- 2.1 Find the length of taper when $D=80$, $d=70$ and $K=1/30$.
- 2.2 Name any six cutting tool materials.
- 2.3 What are the purposes of using lubricants?
- 2.4 How the milling machines are specified?
- 2.5 List any 6 milling cutters.
- 2.6 Differentiate Rough and Precision grinders.
- 2.7 What are the responsibilities of Employees with respect to PPE?
- 2.8 What are the correct steps to use of fire extinguisher?

3.0 ANSWER ANY FOUR OF THE FOLLOWING

4*4=16

- 3.1 Explain briefly Tumbler gear mechanism.
- 3.2 Compare vertical milling machine and universal milling machine.
- 3.3 Explain the following with respect to milling.
A. Cutting Speed B. Feed C. Depth of cut
- 3.4 Explain the types of fires and fire extinguisher
- 3.5 Explain any two work holding devices used in milling machine.
- 3.6 Draw the nomenclature of plain milling cutter.

