

NETTUR TECHNICAL TRAINING FOUNDATION
DIPLOMA IN TOOL ENGINEERING & DIGITAL MANUFACTURING– CP01
III SEMESTER REGULAR & SUPPLEMENTARY EXAMINATION-JAN 2023

Subject: Production Technology
Subject Code: CP01306T

Total Time: 2 Hr.
Total Marks: 50

PART B

1.0 ANSWER ANY EIGHT OF THE FOLLOWING **2*8=16**

- 1.1 List the factors considered for cutting speed.
- 1.2 How the abrasives are classified?
- 1.3 Name any four standard shapes of grinding wheel
- 1.4 Define continuous broaching
- 1.5 What are the different types of jig grinding methods?
- 1.6 Define honing and mention its purpose.
- 1.7 How to do the lapping on an internal surface?
- 1.8 Name any four electrode materials used in EDM
- 1.9 Why servo head mechanism is used in EDM?
- 1.10 Define sintering

2.0 ANSWER ANY SIX OF THE FOLLOWING **3*6=18**

- 2.1 Define: a) Cutting speed, b) Feed, c) Depth of cut
- 2.2 List out the various specification of grinding wheels.
- 2.3 Explain direct indexing with neat sketch
- 2.4 In broaching, how the pitch of the broach is determined?
- 2.5 Name the important parts of a jig boring machine with a neat sketch
- 2.6 What is superfinishing? Mention various super finishing operations
- 2.7 Write the advantages and disadvantages of cold working process.
- 2.8 What are the steps involved in powder metallurgy also write any 2 disadvantages

3.0 ANSWER ANY FOUR OF THE FOLLOWING **4*4=16**

- 3.1 Differentiate between dressing and truing
- 3.2 Explain the following: a) Taper Grinding b) Gear Grinding
- 3.3 Distinguish between wet lapping and dry lapping
- 3.4 Name the elements of a broaching tool with the help of a neat sketch.
- 3.5 Explain EDM process and write its application
- 3.6 What is forging? Explain the different types of forging

