

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

Subject: Press Tool Technology

Total Time: 2 Hr.

Subject Code: CP01404T

Total Marks: 50

PART B

1.0 ANSWER ANY EIGHT OF THE FOLLOWING

2*8=16

- 1.1 What is shut height of a press?
- 1.2 What are the different types of dieset used in Press tools?
- 1.3 What are the different types of bending tools?
- 1.4 Why component produced in compound tool will be identical?
- 1.5 Write short note about neutral fibre
- 1.6 Name the different forces acting in fine blanking operation.
- 1.7 Why air vents are provided in drawing operation?
- 1.8 List out any 4 forming operations.
- 1.9 Mention the purpose of curling done on the edge of a component.
- 1.10 Mention the two ways to make V-ring in fine blanking tool.

2.0 ANSWER ANY SIX OF THE FOLLOWING

3*6=18

- 2.1 Explain the parts of a die set
- 2.2 List the sequence of operations in fine blanking process.
- 2.3 Explain planishing tool with a neat sketch.
- 2.4 Explain bend elements with a neat sketch
- 2.5 Differentiate between forward and backward extrusion with sketch.
- 2.6 How a combination tool differ from a compound tool?
- 2.7 Explain the different forces acting on a drawn component
- 2.8 Explain the effect of burr side of a blank while going for bending?

3.0 ANSWER ANY FOUR OF THE FOLLOWING

4*4=16

- 3.1 What are the advantages of using a dieset in a press tool?
- 3.2 Explain with neat sketch the construction and working of compound tool
- 3.3 Differentiate between Embossing and Coining operations
- 3.4 What are the different forging defects? Explain any two.
- 3.5 Mention the different types of steels as per the AISI classification.
- 3.6 Draw the neat sketch of u-bending tool & mention its parts