

**NETTUR TECHNICAL TRAINING FOUNDATION**  
**DIPLOMA IN TOOL ENGINEERING & DIGITAL MANUFACTURING-CP01**  
**VI SEMESTER REGULAR & SUPPLEMENTARY EXAMINATION-MAY 2023**

**Subject: Mould Technology**  
**Subject Code: CP01601T**

**Total Time: 2 Hr.**  
**Total Marks: 50**

**PART B**

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

- 1.1 What are the different types of injection moulding machines?
- 1.2 Name three section or zone, included in the screw of injection moulding machine
- 1.3 What is meant by plasticizing capacity?
- 1.4 Write any four surface treatment processes for plastics
- 1.5 What do you understand by the term drooling in moulding process?
- 1.6 What are the factors to be considered for designing a product? (any 4)
- 1.7 Write the functions of push back pin
- 1.8 Name the different types of nozzles used in injection moulding machine
- 1.9 What are the basic functions of sprue?
- 1.10 List out the different types of cold defects

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

- 2.1 Write down any 3 advantages, disadvantages & applications of microprocessor
- 2.2 Explain about pre-plasticizer two stage screw injection cylinder machine
- 2.3 What are the advantages of chrome plating?
- 2.4 Explain about electro plating of plastics.
- 2.5 Explain time to market concept
- 2.6 Write the function of ejector guide pillar and guide bush
- 2.7 What are shock absorbers? Why it is used?
- 2.8 Explain any two types of Hot defects

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

- 3.1 Explain about plunger injection cylinder machine with neat sketch.
- 3.2 Explain about basic arrangements of injection moulding machine.
- 3.3 What are the steps for polishing?
- 3.4 Explain the hot stamping process
- 3.5 What are the different design considerations of die casting mould?
- 3.6 Explain two-color moulding in detail

