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2107084

BACHELOR OF VOCATION
Tool and Die Manufacturing
Subject: Dies and Moulds
Subject Code: CBME-301
Semester: Fifth
July 2021
Theory (External): 35 Marks
Time: 03 Hours

Instructions to the Students

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 1 mark.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 5 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything on the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

Roll Number									

SECTION –A (SHORT/OBJECTIVE TYPE QUESTIONS)
(10x1=10 Marks)

- A. Define the function of Molding.
- B. Discuss the limitations of rotational molding.
- C. Explain extrusion process.
- D. Explain thermoforming process.
- E. Define the function of electroplating.
- F. Explain the function of Inverted die.
- G. Define embossing process.
- H. Define curling process.
- I. Define the function of surface roughness.
- J. Discuss the function of die block.

SECTION –B (ESSAY TYPE QUESTIONS)
(5x5=25 Marks)

1. Explain the function and working of Injection molding with neat diagram along with Industrial applications.
2. Explain the types of materials used for various mold parts with suitable example.
3. Explain construction, working of progressive die with neat and clean diagram along with industrial applications.
4. Differentiate between compression and transfer molding with neat and clean diagram along with suitable applications.
5. Discuss the function of punch and Die. Explain the methods of manufacturing punch and die with suitable example.
6. Discuss the working of different types of feeding system with suitable applications.
7. Explain the working of combination die with neat and clean diagram along with Industrial applications.
8. Differentiate between hardening and tempering process of heat treatment with suitable example and applications.

==END OF PAPER==