

**B.Voc Production-Tool and Die Manufacturing****Subject: Advanced Press Tools & Dies****Subject Code: ME-603****Semester: Third****Session: - September 2022****Theory (External): 70 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 02 marks.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 10 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 labeled

**Roll Number**

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**SECTION –A (SHORT/OBJECTIVE TYPE QUESTIONS)**  
(10x 2= 20 Marks)

- A. Define the bend allowance curve
- B. Define bending stress
- C. Discuss Grain directions
- D. Define spring back effect
- E. Define the bending force with suitable example
- F. Differentiate between guide bush and stock guide
- G. Define the function of die stops
- H. Define the importance of cutting clearance
- I. Define the function of gauge
- J. Define the meaning of press capacity

**SECTION –B (ESSAY TYPE QUESTIONS)**  
(5x10=50 Marks)

1. Explain construction and principle of Inverted die with neat and clean diagram along with suitable applications related to manufacturing industry .
2. Explain the procedural steps of design of compound dies with suitable example.

2209T094

3. Differentiate between blanking and piercing operation with suitable diagram
4. Discuss the function of punch. Discuss the different types of punch with suitable diagram
5. Explain the function and construction of stripper plate with neat and clean diagram
6. Discuss the steps required for designing of bending die with suitable example
7. Discuss the concept and importance of strip layout with suitable example
8. Define cutting force .Describe the shearing theory with suitable example?

**END OF PAPER**