

OCTOBER 2021

Time: Three hours

Maximum Marks: 75

- Note:
1. Answer ALL the questions in PART-A (1 mark each)
  2. Answer any ONE question from each unit in PART-B (3 marks each)
  3. Answer any ONE question from each unit in PART-C (10 marks each)
  4. The question paper contains TWO Pages

**PART-A** (1x10=10)

1. What is piercing?
2. What is tool shut height?
3. What is pilot?
4. What is fluid spring?
5. Define bend radius.
6. What is crimping?
7. Mention the stages of drawing.
8. What do you mean by draw beads?
9. What is V-Ring?
10. What is SMED?

**PART-B** (3x5=15)

UNIT-I

11. Give the classification of presses based on power supply.
12. What is end wheel press?

UNIT-II

13. Briefly explain about hopper feeds.
14. Write a short notes on mechanical hands.

UNIT-III

15. What are the types of bending die?
16. Explain about bulging dies.

UNIT-IV

17. Draw the sketch for Hydroform process.
18. What are drawing inserts?

UNIT-V

19. Compare fine blanking with blanking.
20. What are the advantages of CNC turret press?

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PART-C (10x5=50)

UNIT-I

21. Explain about various parts of press.
22. Explain the safety in press working.

UNIT-II

23. Briefly explain any three feeding mechanism for individual parts.
24. Explain about die buttons and retainers.

UNIT-III

25. Explain about developed length and spring back.
26. Explain assembly die in detail

UNIT-IV

27. Explain the construction and working principle of Reverse redrawing die.
28. Explain any 3 defects in cup drawing.

UNIT-V

29. Explain construction, advantage and applications of advanced multistage tooling.
30. Explain in detail the seven steps to SMED.

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