814 Register No.:

April 2019

Time – Three hours
(Maximum Marks: 75)

[N.B: (1) Q.No. 8 in PART – A and Q.No. 16 in PART – B are compulsory. Answer any FOUR questions from the remaining in each PART – A and PART – B

(2) Answer division (a) or division (b) of each question in PART – C.

(3) Each question carries 2 marks in PART – A, 3 marks in Part – B and 10 marks in PART – C.]

PART – A

1. What do you mean by press working?
2. List out any four press feeding mechanism.
3. What is the function of die cushion?
4. Name the types of bending dies.
5. List out the friction variables in drawing.
6. What is shear form die?
7. What are the applications of fine blanking?
8. What is the purpose of curling?

PART – B

9. Draw OBI press and mark its parts.
10. Distinguish between blanking and piercing operation.
11. What are the functions of die plate and stripper plate?
12. What are the methods of overcoming spring back?
13. Explain ironing.
14. What is orange peel?
15. What are the factors affecting tool life?
16. What are the advantages of die set?

[Turn over.....

PART – C

17. (a) What in clearance? Explain about the effects of clearance variation.

(Or)

(b) List out the press operating parameters and explain each.

18. (a) Explain about ejection mechanism.

(Or)

(b) Explain the construction and working of progressive tool with neat sketch.

19. (a) Explain the construction and working of a 'V' bending die.

(Or)

(b) Write short notes on (i)Swaging dies (ii)Bulging dies.

20. (a) Briefly explain the various stages of drawing.

(Or)

(b) With a neat sketch, explain side piercing die.

21. (a) Explain the procedure for investigation of tool failure.

(Or)

(b) Explain the working principle of fine blanking machine
