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Register No.:		

S.CO

## October 2018

<u>Time - Three hours</u> (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 are the three stages of theory of shear?
- 2. Name the components of die set.
- 3. What are strippers?
- 4. What is corrugating in bending operation?
- 5. Name the stresses developed during bending.
- 6. Define draw beads.
- 7. Write about CNC turret press.
- 8. Name the different types of fine blanking tools.

## PART - B

- 9. Give the classification of presses based on power supply.
- 10. Explain magazine feed mechanism.
- 11. Name the types of bending dies.
- 12. Write a note on bending operation done by using press brake.
- 13. What is air vent?
- 14. Write notes on reverse drawing dies.
- 15. Compare fine blanking with blanking.
- 16. What is the purpose of pilots?

[Turn over....

## PART - C

17. (a) Compare mechanical, hydraulic and pneumatic press.

(Or)

- (b) List out the press working operation for producing blanks and explain each.
- 18. (a) Explain any three feeding mechanism for individual parts.

(Or)

- (b) With neat sketches, explain progressing die design.
- 19. (a) Explain the construction and working principles of solid form die.

(Or)

- (b) Write short notes on: (i)Bend radius (ii)Neutral axis (iii)Spring back.
- 20. (a) List out the defects in drawing and explain any four with neat sketches.

(Or)

- (b) With neat sketch explain notching die.
- 21. (a) Sketch and explain the compound type fine blanking tool with sliding punch.

(Or)

(b) Explain in detail the seven steps to SMED.