

Register No.:

348

October 2023

Time - Three hours
(Maximum Marks: 100)

- [N.B. 1. Answer all questions under Part-A. Each question carries 3 marks.
2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART - A

1. State any four types of patterns.
2. What is the function of core?
3. Define welding.
4. What are the defects that are generally found in welding?
5. List out the driving mechanisms used in presses.
6. What is hardening? State its purpose.
7. Give examples for thermoplastics.
8. List out the finishing operations in powder metallurgy.
9. Sketch any one work holding device of lathe.
10. Define: (i) Feed (ii) Depth of cut.

PART - B

11. (a) Explain the different types of pattern.
(Or)
(b) Sketch a hot chamber die casting machine. Explain with its applications.

[Turn over.....]

12. (a) Explain the principle of operation of submerged arc welding process. State its advantages and applications.

(Or)

(b) Discuss any one type of non-destructive test for testing welded joints.

13. (a) How are presses classified? Sketch and explain the working of hydraulic press.

(Or)

(b) Explain any three annealing processes.

14. (a) Explain the working of sintering furnace with a neat sketch.

(Or)

(b) Explain the Calendaring process with a neat sketch.

15. (a) Draw the sketch of a centre lathe and indicate the parts. Explain.

(Or)

(b) Explain with the neat sketch of parallel action multi spindle automatic lathe.