

Register No.:

**630**

**April 2024**

*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. Mention the different pattern allowances.
2. What is meant by tempering?
3. Write a short note on forging.
4. Compare soldering and brazing.
5. What are the types of lathe?
6. List the types of shaper.
7. Mention the types of milling machine.
8. Define glazing.
9. Define adjustable bed press.
10. Define galvanizing.

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PART – B

11. (a) Enumerate the properties of moulding sand and explain any five in detail.

(Or)

- (b) Explain various tempering processes in detail.

12. (a) Explain the process of hot rolling and cold rolling.

(Or)

- (b) Explain the process of soldering with neat sketches.

13. (a) Draw a neat sketch of a lathe and label the parts.

(Or)

- (b) Explain the working of quick return motion mechanism used in shaper with neat sketch.

14. (a) With a neat sketch, explain the working of vertical milling machine.

(Or)

- (b) Explain the process of dressing and truing of grinding wheel.

15. (a) Explain the working of hydraulic press with neat sketch.

(Or)

- (b) Explain the process of anodizing, galvanizing, and Degreasing.

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