

Register No.:

580

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. What is digitiser?
2. What is IGES format?
3. Write the benefits of cam.
4. What is 3D printing?
5. List the components of NC systems.
6. What is CNC EDM machine?
7. What is ATC?
8. What is work zero?
9. What is the need for earthing?
10. Write short notes on lubrication systems.

[Turn over.....

PART – B

11. (a) Explain about Shigley's design process.
(Or)
(b) Explain about various geometric modelling techniques.
12. (a) Explain about MRP.
(Or)
(b) Explain the concept and applications of rapid prototyping.
13. (a) Explain about horizontal turning centre with neat sketch.
(Or)
(b) Explain the construction and working principle of coordinate measuring machine with neat sketch.
14. (a) Explain about recirculation ball screw with neat sketch.
(Or)
(b) Write a sample NC program for any one lathe operation.
15. (a) Explain about preventive maintenance.
(Or)
(b) Explain various maintenance schedules.
