7.11.2023 A020420 – MT-II (4 SEM)

Register No.:

545

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. List out any six cutting tool materials.
2. Write short notes on balancing of grinding wheels.
3. What is meant by quick return mechanism?
4. Compare push broach with pull broach.
5. Write short notes on stub arbor.
6. List out the gear finishing processes.
7. List out the process selection parameters.
8. What is plasma?
9. Compare NC with CNC.
10. What are the uses of tool inserts?

[Turn over.....

PART – B

11. (a) Explain the nomenclature of single point cutting tool with a neat sketch.

(Or)

(b) Explain cylindrical grinder with a neat sketch.

12. (a) List the different operations performed in planer. Explain any three operations with neat sketches.

(Or)

(b) Explain vertical broaching machine with a neat sketch.

13. (a) Explain the following milling cutters with neat sketches
(i) Cylindrical milling cutter (ii) Slitting cutter (iii) T slot milling cutter

(Or)

(b) Explain the gear hobbing process.

14. (a) Explain abrasive jet machining with neat sketch. Write its advantages, disadvantages and applications.

(Or)

(b) Explain laser beam machining with a neat sketch. Also write its advantages, disadvantages and applications.

15. (a) Explain the construction and working of machining centre with a neat sketch.

(Or)

(b) Explain the linear and circular interpolation in a CNC Machining centre.
