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Register	
Danietar	No.
CERISIEL	.NO

October 2018

Time - Three hours (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

- Mention two composite materials.
- Name the various work holding devices used in a shaper.
- 3. Mention the different types of broaching operation.
- 4. List out the four types of milling cutter.
- 5. Name the finishing processes for unhardened gears.
- 6. What is the application of abrasive belt grinder?
- 7. What are the types of turning centre?
- 8. What is pultrusion?

PART - B

- 9. Enumerate three uses of autoclave process.
- 10. Compare thermoplastic and thermo set plastic.
- 11. Draw any one fixture used in shaper.
- 12. What are the specifications of a milling machine?
- 13. List out three merits of gear hobbing.
- 14. Show the arrangement for cylindrical form grinding.
- 15. List out three applications of ultrasonic machining.
- 16. What are the uses of feed back devices in CNC?

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PART - C

17. (a) Explain sandwich moulding with a neat sketch.

(Or)

- (b) With the help of a neat sketch, describe rotational moulding process.
- 18. (a) Explain the feed mechanism in a shaper with a neat sketch.

(Or)

- (b) What are the broaching operations? Explain any two of them with a simple sketch.
- 19. (a) With sketches, briefly explain any three types of milling operations.

(Or)

- (b) Explain a gear burnishing with a neat sketch.
- 20. (a) Explain a plunge cut grinding with a neat sketch.

(Or)

- (b) Explain the construction and working of a laser beam machining with a sketch.
- 21. (a) Explain the construction and working of CNC turning centre.

(Or)

(b) Explain the various types of tool magazines used in CNC machines.

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