974

Register No.:

April 2019

Time - Three hours (Maximum Marks: 75)

- IN.B; (1) Q.No. B 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
 - (Z) 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. j

PART - A

- 1. What are elastomers?
 - Mention the work holding devices of a planer.
 - 3. What is land in the broach tool?
 - Mention any four work holding devices in milling machine.
 - 5. What are the gear materials?
 - 6. What is dressing of abrasive wheels?
 - 7. What are the feedback devices?
 - 8. What are the constituents of composite?

PART - B

- 9. What are the design considerations for plastic components?
- 10. Describe about the structural foam.
- 11. Describe about any one work holding device in shaper.
- 12. Write briefly the types of broaches.
- Explain briefly spring collet.
- 14. Describe about planetary grinders.
- 15. What are the requirements of stide ways?
- 16. Describe the mounting of grinding wheels.

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PART - C

17. (a) Explain the twin screw extruders with simple sketch.
(Or)

- (b) Explain the pultrusion process of composite manufacturing.
- (a) Explain a guick return mechanism in the planning machine.
 (Or)
 - (b) Explain the automatic feed mechanism of the slotting machine.
- 19. (a) Explain the nomenclature of the cylindrical milling cutter.
 (Or)
 - (b) Explain the gear burnishing process.
- (a) Explain the standard marking systems of grinding wheels.
 (Or)
 - (b) Explain the construction and working of a ultrasonic machining.
- (a) Explain the construction and working of a turning centre.
 (Or)
 - (b) Explain the working principle of a rotary transducer.

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