



C16-M-404

**6449**

**BOARD DIPLOMA EXAMINATION, (C-16)**  
**OCT/NOV—2018**  
**DME—FOURTH SEMESTER EXAMINATION**  
**PRODUCTION TECHNOLOGY-II**

Time : 3 hours ]

[ Total Marks : 80

**PART—A**

3×10=30

- Instructions :** (1) Answer **all** questions.  
(2) Each question carries **three** marks.  
(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. List out any six types of milling machines.
2. What is indexing? List various types of indexing methods.
3. Why are gears heat treated?
4. State the advantages and limitations of grinding.
5. State the principle of Honing.
6. Write advantages and disadvantages of Chemical milling.
7. State the differences between the Thermo Plastics and Thermo setting plastics.
8. Write the Classification of presses.
9. Distinguish between Jig and Fixture.
10. Draw a line diagram of cross rail jig boring machine.

**PART-B**

10×5=50

- Instructions :** (1) Answer *any five* questions.  
(2) Each questions carries **ten** marks.  
(3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.

- 11.** State various milling operations and explain any four in detail.
- 12.** Explain the principle of following Gear finishing processes :  
(a) Gear shaving, (b) Gear burnishing
- 13.** Explain any two methods of coating by hot dipping.
- 14.** Describe the Abrasive jet machining with a sketch. State its advantages and disadvantages.
- 15.** Explain the operation of Injection moulding of plastics with a sketch.
- 16.** What are different types of Dies? Explain any two with sketches.
- 17.** Explain the following with sketch :  
(a) Template Jig, (b) Box Jig
- 18.** Explain the principle of electromagnetic measuring system in Jig boring.

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