



C16-M-404

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BOARD DIPLOMA EXAMINATION, (C-16)

MARCH/APRIL—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. Name any six important parts of milling machine. 3
2. Explain briefly gang milling. 3
3. Write the various gear finishing operations. 3
4. Write the principle of superfinishing. 3
5. What is a bonding material used in grinding wheel? Mention any two commonly used bonding materials. 2+1
6. State any three advantages of laser beam machining. 3
7. What are the common methods for joining plastics? 3
8. What are the different types of dies? 3
9. State the advantages of jigs and fixtures. 3
10. What is a jig boring machine? How are they classified? 1+2

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PART—B

10×5=50

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

- 11.** Draw a line diagram of a horizontal milling machine and explain the functions of its parts. 5+5
- 12.** Explain the methods of heat treatment of gears. 10
- 13.** (a) Explain the principle of centreless grinding with a sketch. 5
(b) Explain 'infeed', 'through feed' and 'end feed' operations in centreless grinding. 5
- 14.** Describe the ultrasonic machining with a neat sketch. State its advantages and limitations. 3+3+2+2
- 15.** Explain the principle of blow moulding of plastics with a line diagram. 5+5
- 16.** How are presses classified? Explain any one with sketch. 10
- 17.** Explain different types of clamps used in jigs and fixtures. 10
- 18.** Draw a line diagram of open front jig boring machine and label the parts. Explain its working. 5+5
