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BOARD DIPLOMA EXAMINATION, (C-16)

MAY/JUNE—2023

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. What is indexing? State the principle of direct indexing.
2. How do you specify the milling machine?
3. What is the necessity of gear finishing?
4. What is bonding material? Mention any two commonly used bonding materials.
5. What is anodizing? What is its purpose?
- * 6. State any three limitations of ultrasonic machining.
7. List out moulding methods of plastics.
8. State the difference between compound die and combination die.
9. Differentiate between jigs and fixtures.
10. What are the applications of jig boring machine?

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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 criterion for valuation is the content but not the length of the answer.

- 11.** List various types of milling cutters. Explain any four cutters with neat sketches. 10
- 12.** Explain the gear hobbing with the help of a neat sketch. 6+4
- 13.** List out various methods of grinding and explain cylindrical grinding machine. 10
- 14.** Describe the ultrasonic machining with neat sketch and state its applications. 10
- 15.** Explain the transfer moulding process with the help of a neat sketch and state its advantages. 10
- 16.** What are the cutting operations used in press tools? Explain. 10
- 17.** List different types of clamps used in jigs and fixtures. Explain any three with sketch. 10
- 18.** Explain the working principle of open front type jig boring machine with a neat sketch. 10

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