



**C16-M-404**

**6449**

**BOARD DIPLOMA EXAMINATION, (C-16)**

**OCTOBER/NOVEMBER—2024**

**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. Classify the milling machines.
3. What are the various methods of gear manufacturing?
4. Define Grit and Structure of a grinding wheel.
5. Differentiate between lapping and honing.
6. State the principle of Ultrasonic Machining.
7. What is a jig boring machine?
8. List out different types of jigs.
9. What are the factors to be considered for selection of a press?
10. State any six engineering applications of plastics.

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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.** What are the various types of milling cutters and explain any two of them with neat sketches.
- 12.** Explain the gear hobbing machine with a neat sketch.
- 13.** Write short notes on (a) Vitrified bond and (b) Shellac bond.
- 14.** Explain the electrical discharge machining with a neat sketch. State its advantages and disadvantages.
- 15.** Explain the following with neat sketches :  
(a) Compound die  
(b) Progressive die.
- 16.** Describe any three types of fixtures.
- 17.** Explain the following with neat sketches :  
(a) vacuum forming  
(b) blow moulding
- 18.** Explain the working of cross rail type jig boring machine with a neat sketch.

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