



C16-M-404

**6449**

**BOARD DIPLOMA EXAMINATION, (C-16)  
AUGUST/SEPTEMBER—2021  
DME - FOURTH SEMESTER EXAMINATION  
PRODUCTION TECHNOLOGY - II**

*Time : 3 hours ]*

*[ Total Marks : 80*

**PART—A**

- 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. Write the working principle of milling machine. 3
2. What is indexing? List out various indexing methods. 2+1
3. Write the various gear finishing processes. 3
4. List out any three special purpose of grinding machines. 3
5. State the functions of organic coatings. 3
6. State advantages of non-conventional machining over conventional machining. 3
7. What is calendaring of plastics? 3
8. What is meant by power press? 3
9. What is an indexing jig? 3
10. What is jig boring machine? 3

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## PART—B

- 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.** Draw a line diagram of vertical milling machine and mention the function of each part. 4+6
- 12.** Draw a neat sketch of gear shaper and describe the process using pinion cutter. 5+5
- 13.** Classify the grinding machines and explain the working principle of center less grinding machine with a neat sketch. 3+7
- 14.** Explain the different stages involved in lamination of tube with line diagram. 6+4
- 15.** Explain electrical discharge machining with a neat sketch and state its applications. 6+4
- 16.** What are the types of dies? Explain progressive die with a neat sketch. 4+6
- 17.** Draw and explain leaf jig a neat sketch. 4+6
- 18.** Explain the working principle of cross rail type jig boring machine with a neat sketch. 6+4

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