



C16-M-404

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BOARD DIPLOMA EXAMINATION, (C-16)
JANUARY/FEBRUARY—2022
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. Define cutting speed, feed and depth of cut with respect to milling cutter. 3
2. What is indexing? List out different methods of indexing. 1+2=3
3. List out various elements which are important in measuring and testing of gears. 3
4. List out various bonding materials used in manufacturing of grinding wheel. 3
5. Write any three main functions of organic coatings. 3
6. What are the steps involved in chemical milling? 3
7. Compare thermoplastics with thermosetting plastics. 3
8. Distinguish between blanking and punching. 3
9. What are the factors to be considered for location of work piece? 3
10. List out various methods for hole location on work piece. 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. Explain any five milling operations with relevant diagrams. 10
12. Explain gear lapping and gear honing methods with the help of sketches. 10
13. Explain the working principle of electroplating with a neat sketch. 10
14. Explain Abrasive Jet Machining with a neat sketch. List out its advantages and disadvantages. 3+3+2+2=10
15. Explain transfer moulding with a sketch. State its advantages and disadvantages. 3+3+2+2=10
16. How are press classified? Explain any one with a sketch. 3+4+3=10
17. Explain toggle clamp and cam clamp with sketches. 10
18. Explain open front jig boring machine and cross rail jig boring machine. 10

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