



C16-M-404

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BOARD DIPLOMA EXAMINATION, (C-16)
SEPTEMBER/OCTOBER - 2020
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. Classify the milling machines.
2. Name any six important parts of milling machine.
3. Write the various gear finishing operations.
4. State any four advantages of grinding.
5. Write the functions of organic coating.
6. State the principal of ultrasonic machining.
7. List out any four moulding methods of plastics.

- * 8. How is a press specified?
9. Differentiate between jig and fixtures.
10. State the methods of locating holes accurately.

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 the diagram of horizontal milling machine and explain the function of each part. 10
12. Explain the methods of heat treatment of gears. 10
13. Explain the principles of centre less grinding with neat sketch. 10
14. Explain the electrical discharge machining with neat sketch, giving its advantages and disadvantages. 10
15. Explain the principal of blow moulding of plastics with neat sketch. 10
16. (a) Draw a neat sketch of progressive die and explain its uses.
(b) Explain the shear action in the cutting operations. 5+5=10
17. Explain the following clamps with diagrams : 4+3+3=10
(a) Strap clamp
(b) Cam clamp
(c) Screw clamp
18. Explain open front type jig boring machine with neat sketch. 10
