



C16-M-405

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BOARD DIPLOMA EXAMINATION, (C-16)
MARCH/APRIL—2018
DME—FOURTH SEMESTER EXAMINATION
MANUFACTURING 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. Define grade. How it effects the selection of grinding wheel?
2. Write any three advantages of centreless grinding.
3. Describe the principle of honing.
4. What is dielectric? State its functions in electric discharge machining.
5. State the principle of ultrasonic machining.
6. List out any six engineering applications of plastics.
7. What is calendaring of plastics?

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8. What is meant by invested die?
9. Define jig and fixture.
10. What is optical comparator? State its uses.

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. List out various methods of grinding and explain cylindrical grinding machine.
12. Explain the working principle of electroplating with a neat sketch.
13. Explain the abrasive jet machining with a sketch. State its advantages and disadvantages.
14. (a) State the advantages, disadvantages and applications of LBM.
(b) State the advantages and limitations of injection moulding.
15. Describe the methods of making reinforced plastic moulding.
16. List and explain various press tool cutting operation.
17. Explain different types of clamps used in jigs and fixtures.
18. Describe the working of toolmaker's microscope with a neat sketch.
