



C14-M-506

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**BOARD DIPLOMA EXAMINATION, (C-14)
OCT/NOV—2018
DME—FIFTH SEMESTER EXAMINATION**

PRODUCTION TECHNOLOGY—III

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. State the advantages and limitations of nonconventional machining over conventional machining.
2. State any three advantages of electric discharge machining.
3. State the principles of chemical machining.
4. What are the advantages of plastics over the other materials?
5. How are the plastics extruded?
6. What is meant by power press?
7. State the difference between compound die and combination die.

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8. Define jig and fixture.
9. What are the advantages of using jigs and fixtures?
10. What is jig boring machine? How are they classified?

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. Describe the ultrasonic machining with a neat sketch. State its applications, advantages and limitations.
12. Explain the abrasive jet machining with a neat sketch. State its advantages and disadvantages.
13. Describe compression moulding of plastics. Distinguish among three basic types of compression moulds used.
14. Describe the methods of making reinforced plastic moulding.
15. List and explain various press tool cutting operations.
16. Define spring back. Explain the method used to compensate for its harmful effects.
17. Explain different types of clamp used in jigs and fixtures.
18. Describe the systems of location of holes with a sketch.

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