



C14-M-506

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BOARD DIPLOMA EXAMINATION, (C-14)  
OCT/NOV—2017  
DME—FIFTH SEMESTER EXAMINATION

PRODUCTION TECHNOLOGY—III

Time : 3 hours ]

[ Total Marks : 80

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**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. Write the classification of modern machining process.
2. Mention any four advantages of laser beam machining process.
3. Draw the neat sketch for the principle of EDM.
4. List out any six properties of plastics used in engineering applications.
5. What is meant by thermosetting plastics? Give any two examples of thermoplastics used in our daily life.
6. What is meant by power press?
7. What is meant by blanking operation?

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8. What are jig<sup>\*</sup> and fixtures?
9. List out any four types of fixtures.
10. State the functions of a jig boring machine.

**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 working of USM with a neat sketch.
12. What are the advantages and disadvantages of electric discharge machining?
13. Explain (a) blow moulding and (b) flash-type compression moulding.
14. (a) Draw the neat sketch for manufacturing of rods or tubes in plastics.  
(b) What are the advantages of extrusion?
15. Explain compound die with a neat sketch.
16. Explain leaf jig with a neat sketch.
17. Write briefly about any three types of clamps with neat sketch.
18. Explain the working of a cross rail-type jig boring machine with a neat sketch.

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