



C14-M-506

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BOARD DIPLOMA EXAMINATION, (C-14)  
MARCH/APRIL—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. Define—(a) transducer and (b) abrasive slurry used in USM.
2. Give the classification of modern machining processes.
3. What are the applications of laser beam machining?
4. What are the types of plastic? Give an example for each.
5. Write a short note on calendaring.
6. List out the forming operations.
7. Write briefly about the bend allowance.

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8. What are the elements of jigs and fixtures?
9. Write about drawing operation.
10. What is meant by jig boring?

**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 LBM with neat sketch.
12. (a) Write any three advantages and three disadvantages of abrasive jet machining.  
(b) Write the application of abrasive jet machining.
13. Describe the process of injection moulding with a neat sketch.
14. Describe the process of transfer moulding with a neat sketch.
15. List out the cutting operations of press tools and explain any three of them with neat sketches.
- \* 16. List out the types of fixture and explain boring fixtures with a neat sketch.
17. What is meant by clamping? What are the basic principles of clamping?
18. Explain the working of open front jig boring machine with a sketch.

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