



C16-M-404

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BOARD DIPLOMA EXAMINATION, (C-16)  
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. What is indexing? State the principle of direct indexing.
2. How a milling machine is specified?
3. What are the advantages of gears which are made up of plastic materials?
4. What are the types of grinding machines?
5. What are the principles of a super finishing?
6. List out any eight advantages of non-conventional machining.
7. List out engineering applications of plastics.
8. What is meant by power press?
9. What are the advantages of using jigs and fixtures?
10. What is a jig boring machine and how are they classified?

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**PART—B**

10×5=50

**Instructions :** (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.

11. What are the various types of milling cutter? Explain briefly any two with neat sketches.
12. Explain the operation of gear hobbing process with a neat sketch.
13. (a) Explain the process of electroplating with neat sketch.  
(b) Describe with a neat sketch the powder method of metal spraying.
14. Describe the laser beam machining with a neat sketch. State the advantages and limitations.
15. Explain transfer moulding process with the help of neat sketch. State its advantages and disadvantages.
16. (a) Draw a neat sketch of progressive and explain its uses.  
(b) Explain the shear action in the cutting operation.
17. Explain the following sketches :  
(a) Milling fixtures  
(b) Boring fixtures
18. What are the different types of jig boring machine? Explain cross rail type machine with sketches.

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