



C09-M-402

**3502**

**BOARD DIPLOMA EXAMINATION, (C-09)**  
**SEPTEMBER/OCTOBER - 2020**  
**DME—FOURTH SEMESTER EXAMINATION**  
**MANUFACTURING TECHNOLOGY—II**

*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. Name any six important parts of milling machine.
2. State the differences between straddle milling and gang milling.
3. List various methods of gear manufacturing.
4. Write any three advantages of centreless grinding.
5. Give the details of grinding wheel with the following marking :  
'W-C-54-M-3-V-17'
6. Write any three advantages of laser beam machining.
7. What is calendaring of plastics?
8. Differentiate between blanking and piercing.

- \* 9. Define jig and fixture.
10. Draw the line diagram of cross rail 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. Draw a sketch of universal milling machine and explain the function of each part.
12. What is indexing? Explain simple indexing with neat sketch.
13. Explain the factors for selection of grinding wheels.
14. Explain the following with neat sketches :
- (a) Metal spraying
  - (b) Jig boring machine
15. Describe the ultrasonic machining with a neat sketch. State its applications.
16. Explain the principle of following processes with neat sketches :
- (a) Calendering
  - (b) Vaccum forming
17. Explain any four press working operations with the help of neat sketches.
- \* 18. What are the different types of dies? Explain any two with neat sketches.

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