



C09-M-402

**3502**

**BOARD DIPLOMA EXAMINATION, (C-09)  
OCT/NOV—2015  
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. What are the advantages of gears made of plastic materials?
2. What is the necessity of gear finishing?
3. Write any three differences between profile milling and form milling.
4. List various methods of grinding.
5. Write any three advantages of centreless grinding.
6. State any three advantages of ultrasonic machining.
7. List different methods of plastic welding.

/3502

1

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8. What are the advantages of hydraulic press over mechanical press?
9. What is an indexing jig?
10. Draw a 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) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. List all work holding devices used in milling and explain any four in detail.
12. Draw a line diagram of horizontal milling machine and explain the function of each part.
13. Explain powder method of metal spraying with the help of a sketch.
14. Explain the operation of Electrical Discharge Machining (EDM) with a sketch. State its advantages and disadvantages.
15. Explain transfer moulding with a sketch. State its advantages and disadvantages.
- \* 16. What are the different types of dies? Explain any two with sketches.
17. Explain the principles of location for prevention of six degrees of freedom.
18. (a) Explain the terms grade, grit and structure of a grinding wheel.
- (b) Explain the principle of electromagnetic measuring system.

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