



C09-M-402

3502

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2014

DME—FOURTH SEMESTER EXAMINATION

MANUFACTURING 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) Answer should be brief and straight to the point and shall not exceed *five* simple sentences.

1. What are the various types of work holding devices used in milling?
2. State the principle of milling.
3. What is the necessity of gear finishing?
4. List any three advantages of lapping.
5. What are the functions of surface coatings?
6. Write any three advantages of Laser beam machining.
7. What are the purposes of the following additives of plastics?
 - (a) Pigments
 - (b) Stabilizer
 - (c) Catalyst

- * 8. What are the advantages of hydraulic clamping?
9. Distinguish between blanking and punching.
10. State the applications of 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. (a) What is form milling? Explain the types of form milling cutters.
(b) State the differences between upmilling and down-milling.
12. Explain gear shaping method with a sketch.
13. Draw a sketch of plain cylindrical grinding machine and explain the parts.
14. Explain the operation of electrical discharge machining (EDM) with a sketch. State its advantages and disadvantages.
15. Explain Ram type injection moulding with a diagram and state the advantages.
16. Draw a sketch of punch and die set and indicate main components. State the purpose of these components.
17. Explain the principles of location for arresting six degrees of freedom.
- * 18. (a) List and explain various types of work holding devices used in grinding.
(b) Draw a line diagram of jig boring machine and explain.
