



C09-M-402

3502

BOARD DIPLOMA EXAMINATION, (C-09)

MARCH/APRIL—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) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. What is the purpose of the following milling cutters?

(a) Fly cutter

(b) End mill cutter

(c) Angular milling cutter

2. What are the various methods of gear manufacturing?

3. Write the classification of milling machines.

4. List any six types of bonding materials.

5. What is meant by ‘through feed centre less grinding’?

6. What are the limitations of EDM?

- * 7. What is flash mould in plastics?
8. Draw the line diagram of a press.
9. What are the advantages of hydraulic clamping?
10. List out the various methods of hole measurement in 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 criterion for valuation is the content but not the length of the answer.

11. What are the various milling attachments used? Explain any one in detail.
12. Explain differential indexing with a neat diagram.
13. Explain powder method of metal spraying with the help of a sketch.
14. Explain the principle of laser beam machining with a sketch and state its advantages and limitations.
15. Explain the different stages involved in lamination of sheet with a line diagram.
16. Explain the principles of location for arresting six degrees of freedom.
17. List and explain various press tool-cutting operations.
- * 18. (a) Describe the principle of lapping with the help of a neat sketch.
(b) Draw a line diagram of cross rail jig boring machine and name the parts.
