



C09-M-402

3502

BOARD DIPLOMA EXAMINATION, (C-09)
MARCH/APRIL—2017
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. State the principle of gear shaving.
2. Write the classification of milling machines.
3. What are the uses of the following milling cutters?
 - (a) Form-milling cutter
 - (b) Shell-end mill
 - (c) Metal-slitting saw
4. What is meant by 'superfinishing'?
5. List out any three special purposes of grinding machines.
6. List any three functions of dielectric fluid used for EDM.
7. List different methods of plastic welding.

- * 8. What are the advantages of using jigs and fixtures?
- 9. Name different types of drill jigs.
- 10. Write the situation where jig boring machines are needed.

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. Explain the detailed procedure to cut spur gear on milling machine.
- 12. What are the various milling attachments used? Explain any one in detail.
- 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. (a) Draw a sketch of moulding press and label the parts.
(b) Describe the principle of extrusion moulding with a sketch.
- 16. (a) Explain progressive die with a sketch.
(b) Explain compound die with a sketch.
- 17. How are presses classified? Explain any one with a neat sketch.
- * 18. (a) List and explain various types of work-holding devices used in grinding.
(b) What are the different types of jig boring machines? Explain any one of them.
