



C09-M-402

3502

BOARD DIPLOMA EXAMINATION, (C-09)

MARCH/APRIL—2016

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 are the purposes of the following milling cutters?
 - (a) Side milling cutter
 - (b) End mill
 - (c) Staggered teeth cutter
2. What are the advantages of gear burnishing?
3. List various types of tool-holding devices used in milling.
4. How electroplating differs from galvanizing?
5. What are meant by 'dressing' and 'truing' with reference to grinding wheel maintenance?
6. List any three functions of dielectric fluid used for EDM.
7. What is flash mould in plastics?
8. What are the advantages of using jigs and fixtures?

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9. State the ^{*} meaning of press size.
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. Explain the gear shaping method with a sketch.
12. Draw a sketch of universal milling machine and explain the function of each part.
13. Explain any surface grinding machine 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. (a) Write a short note on strip layout.
(b) Draw a diagram of simple cutting die and explain.
17. How are presses classified? Explain any one with a neat sketch.
18. (a) Describe the principle of honing with the help of a sketch.
(b) Draw a line diagram of cross rail jig boring machine and name the parts.
