



C09-M-402

3502

BOARD DIPLOMA EXAMINATION, (C-09)

APRIL/MAY—2015

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 any three differences between gear forming and gear generation methods.
2. State the principle of gear shaving.
3. Write the tool signature of a milling cutter.
4. List any three advantages of lapping.
5. State the principles of metal spraying.
6. State any three applications of ultrasonic machining.
7. List different methods of plastic welding.
8. State any two differences between jig and fixture.

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1

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9. What are the ^{*} purposes of notching and trimming?
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. List all tool-holding devices used in milling and explain each in detail.
12. Draw a line diagram of vertical milling machine and state the function of each part.
13. Explain various factors to be considered for selection of a grinding wheel.
14. Explain the abrasive jet machining with a sketch, stating its advantages and disadvantages.
15. (a) Draw a sketch of moulding press and label the parts.
(b) Describe the principle of extrusion moulding with a sketch.
16. Draw a sketch of punch and die set and indicate main components. State the purpose of these components.
17. List and explain any four types of clamps used with jigs and fixtures.
18. (a) List and explain various types of work-holding devices used in grinding.
(b) Draw a line diagram of cross rail jig boring machine and name the parts.
