



C09-M-402

3502

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—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. State the principle of milling.
2. State any three differences between gear forming and gear generation methods.
3. What are various types of work-holding device used in milling.
4. What is an abrasive? How are abrasives classified?
5. How does electroplating differ from galvanizing?
6. What are the required characteristics of tool materials used for EDM?
7. What are laminates?
8. What is meant by 'press tonnage'.

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9. What are the advantages of using jigs and fixtures?
10. List out 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 the criterion for valuation is the content but not the length of the answer.

11. Explain the following :
- (a) End milling
 - (b) Angular milling
 - (c) Form milling
 - (d) Straddle milling
12. Explain differential indexing with a neat diagram.
13. Explain various factors to be considered for selection of a grinding wheel.
14. Explain ultrasonic machining with a sketch. State its applications, advantages and limitations.
15. Explain transfer moulding with a sketch. State its advantages and disadvantages.
16. (a) Explain a toggle clamp with a sketch.
(b) State the requirements of a good clamping system.
17. What are different types of die? Explain any two with sketches.
18. (a) Describe the principle of honing with the help of a sketch.
(b) What are different types of jig boring machines? Explain any one of them.

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