



C09-M-402

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**BOARD DIPLOMA EXAMINATION, (C-09)
MARCH/APRIL—2018
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. List any six milling operations.
2. List out any three gear generating methods.
3. What are the various types of work holding devices used in milling?
4. A grinding wheel is specified as “A 40 B 2 S”, what do B, 2, S indicate?
5. Write any three advantages of centreless grinding.
6. Name the abrasive particles used in abrasive jet machining.
7. State any three disadvantages of plastics.

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1

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8. List out any six cutting operations using press tools.
9. What are the disadvantages of mechanical press?
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. (a) Explain simple indexing with the help of a neat sketch.
(b) Explain the construction and working principle of plain dividing head.
12. Draw a sketch of universal milling machine and explain the function of each part.
13. Write short notes on the following bonding materials :
- (a) Vitrified
(b) Silicate
(c) Shellac
(d) Resinoid
14. Explain ultrasonic machining with a sketch. State its applications, advantages and limitations.
15. Explain different types of blow moulding with the help of a neat sketch.
16. Explain the principles of location for prevention of six degrees of freedom.

17. Draw a sketch of boring fixture and explain its working.
18. (a) Explain the working principle of electroplating with a sketch.
(b) Draw a line diagram of jig boring machine and explain.
