



C14-M-406

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**BOARD DIPLOMA EXAMINATION, (C-14)
OCTOBER/NOVEMBER-2018
DME-FOURTH SEMESTER EXAMINATION**

MANUFACTURING TECHNOLOGY-II

Time: 3 Hours]

[Total Marks: 80

PART-A

3X10=30

- Instructions :**
1. Answer **All** questions.
 2. Each question carries **Three** marks.
 3. Answer should be brief and straight to the point and shall not exceed five simple sentences.

1. Name any six important parts of milling machine?
2. Define the term cutting speed and feed as applied to milling?
3. Find out the indexing movement required to mill a square shaped block by direct indexing.
4. What is the necessity of gear finishing?
5. Write various gear finishing operations?
6. Define 'grade'. How it effects the selection of grinding wheel?
7. Write any three advantages of centreless grinding?
8. What is anodizing and where it is done?
9. List out different instruments used for linear measurement?
10. Write the application of autocollimator?

PART-B

10X5=50

Instructions : *

1. Answer any **Five** questions.
2. Each question carries **ten** marks.
3. Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer

11. State and explain any five milling operations with neat sketches?
12. Discuss briefly various tool holding devices on milling machine?
13. Sketch and explain vertical milling machine with a line diagram?
14. Explain various method of heat treatment of gears?
15. What are the various methods of grinding? Sketch and explain and internal grinding operations.
16. What are the various method of grinding? Sketch and explain and internal grinding operations.
 - a. Oil base paints
 - b. Lacquers
 - c. Enamels
 - d. Varnishes

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17. (a) Distinguish between honing and lapping?
(b) Describe the working principle of interference microscope a neat sketch?
 18. With the aid of diagram, explain the principle of operation of interferometer?

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