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C14-M-406

4482

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH/APRIL—2021

DME - FOURTH SEMESTER EXAMINATION

PRODUCTION TECHNOLOGY - II

Time : 3 hours ]

[ Total Marks : 80

**PART—A**

4×5=20

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

1. List out different types of milling machine.
2. Define up milling.
3. List out any five milling operations.
4. State the differences between gear forming and gear generating.
5. Write various gear making methods.
6. Classify grinding machines.
7. Write the advantages of centreless grinding.
8. What is anodizing? Write its purpose.
9. What is a comparator? Write its uses.
10. Define slip gauges and state its uses.

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## PART—B

15×4=60

**Instructions :** (1) Answer *any four* questions.  
(2) Each question carries **fifteen** marks.  
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. List various types of milling cutter and explain briefly any two with neat sketches.
12. Write different attachments used on milling machine and explain any two with neat sketches.
13. Draw a neat sketch of a column and knee type milling machine and explain the functions of its parts.
14. Explain briefly the methods of heat treatment of gears.
15. Draw a neat sketch of vertical spindle rotary table surface grinder label the parts and explain their functions.
16. Describe the principle of honing with a neat sketch and write the advantages, disadvantages and applications.
17. (a) Explain various types of organic coating.  
(b) Write the principle of reed-type mechanical comparator.
18. Describe the working of pneumatic comparator with a neat sketch.

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