



C14-M-406

4482

**BOARD DIPLOMA EXAMINATION, (C-14)**  
**OCT/NOV—2018**  
**DME—FOURTH SEMESTER EXAMINATION**  
**PRODUCTION TECHNOLOGY - II**

*Time : 3 Hours]*

*[Total Marks : 80*

**PART—A**

3×10=30

**Instruction :** (1) Answer **all** questions. Each question carries **three** marks.  
(3) Answers should be brief and straight to the point and shall not exceed **five** simple sentences.

1. List out the different types of milling machines.
2. Define up milling.
3. What are the different types of milling cutters?
4. Explain template method of form cutting of gears.
5. What is gear shaving?
6. List out different bonds used in grinding wheels.
7. What are the constant factors for selection of grinding wheels?
8. Explain the principle of internal grinding.
9. List out the different types of comparators.
10. What is the purpose of slip gauges?

**PART—B**

5×10=50

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- Instruction :** (1) Answer any **five** questions  
(2) Each question carries **ten** marks.  
(3) Answers should be comprehensive and the criterion for valuation in the content but not the length of the answers.

11. Explain constructional details of horizontal milling machine with line diagram.
12. Explain the procedure of differential indexing with line diagram.
13. Explain any five milling operations with neat sketches.
14. Write the classification of gear making methods and explain casting of gears and powder metallurgy method of gear making.
15. Explain about natural abrasives and artificial abrasives in grinding.
16. Explain constructional details of cylindrical grinding machine with neat sketch.
17. Explain working of ree type mechanical comparator with line diagram.
18. (a) Write the differences between honing and lapping.  
(b) Explain the mechanism of dial indicator.

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