



C14-M-406

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BOARD DIPLOMA EXAMINATION, (C-14)  
SEPTEMBER/OCTOBER - 2020  
DME—FOURTH SEMESTER EXAMINATION

PRODUCTION 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. Write any six important parts of milling machine. 3
2. Write the working principle of milling machine. 3
3. What is the difference between straddle milling and gang milling?  $1\frac{1}{2}+1\frac{1}{2}$
4. List various methods of gear manufacturing. 3
5. List out various gear finishing operations. 3
6. Write the advantages and limitations of grinding.  $1\frac{1}{2}+1\frac{1}{2}$
7. Write the characteristics of abrasives used in grinding. 3

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8. State the <sup>\*</sup> principle of superfinishing. 3
9. List out different instruments used for linear measurement. 3
10. Write the applications of autocollimator. 3

**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 simple indexing method with the help of sketch. 5+5
12. List various milling operations and explain any two with the help of sketch. 2+4+4
13. Draw a line diagram of vertical milling machine and explain its construction and working. 5+5
14. Explain the operation of gear hobbing with the help of sketch and state its advantages. 4+4+2
15. Explain the construction and working of cylindrical grinding machine with a sketch. 5+5
- <sup>\*</sup> 16. Explain any two methods of coating by hot dipping. 5+5
17. (a) Write a short note on lapping.  
(b) Write the advantages and disadvantages of mechanical comparators. 2½+2½
18. Explain the working of reed-type mechanical comparator with a sketch.

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