

**4482**

**BOARD DIPLOMA EXAMINATION, (C-14)**  
**OCT / NOV-2017**  
**DME-FOURTH SEMESTER EXAMINATION**  
**PRODUCTION TECHNOLOGY - II**

Time : 3 Hours ]

[ Total Marks : 80

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**PART - A**

3 x 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. How is milling machine specified?
2. What is indexing? State the principle of direct indexing.
3. What are the various types of work holding devices used in milling?
4. List the basic gear manufacturing methods.
5. Write the various gear finishing operations.
6. State the advantages and application of silicate bond.
7. Write any three advantages of centre less grinding.
8. Explain honing process.
9. Define sine bar and state its uses.
10. What is an angle gauge?

**PART - B**

10 x 5 = 50

*Instructions :* (1) Answer any five questions.

(2) Each question carries ten marks.

(3) Answers should be comprehensive and the criteria for valuation is the content but not the length of the answer.

11. Explain the constructional features of vertical milling machine.
12. What are the materials used for manufacturing of milling cutter teeth?
13. What are the various milling operations? Explain any four milling operations with the help of suitable sketches.
14. Explain gear manufacturing by powder metallurgy, extruding and rolling processes.
15. Draw a neat sketch of cylindrical centre-type grinding machine. Name the parts and explain their functions.
16. What is galvanizing? Explain the process of galvanizing and state its applications.
17. a) Explain the following processes.
  1. Electroplating
  2. Anodisingb) Explain optical FLAT method of measuring surface roughness.
18. Explain the working of profilometer with a neat sketch.

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