



C14-M-406

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BOARD DIPLOMA EXAMINATION, (C-14)
OCT/NOV—2016
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. List various types of milling machine.
2. Name any six important parts of milling machine.
3. What are various types of tool-holding devices used in milling?
4. State the differences between lapping and honing of gear teeth.
5. Write various gear-finishing operations.
6. What is bonding material? Mention any two commonly used bonding materials.
7. State the advantages and limitations of grinding.

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8. State the ^{*}working principle of an optical flat.
9. List out the application of honing.
10. Define sine bar and state its uses.

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. Draw a neat sketch of a horizontal milling machine and explain the functions of its parts.
12. State various milling operations and explain any four of them in detail.
13. Discuss various work-holding devices with a neat sketch of a milling machine.
14. Explain gear shaping using pinion cutter.
15. State the advantages and limitations of centerless grinding.
16. Draw neat sketch of a horizontal spindle surface grinder. Name the parts and explain their functions.
17. (a) State the different methods of surface measurement.
(b) Explain any one method of coating by hot dipping.
18. (a) State the advantages of mechanical comparator over optical comparator. 5
(b) Describe the working principle of pneumatic comparator, stating its advantages. 5
