



C14-M-406

4482

BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL—2017
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 the various work holding devices used in milling machine.
2. Name any six important parts of milling machine.
3. Classify different dividing heads.
4. What are the different gear finishing methods?
5. What is the principle of gear shaping?
6. What are the variables factors for selecting grinding wheels?
7. What is the principle of horizontal surface grinding?

- * 8. What is the through-feed grinding in centreless grinding?
9. Write the applications of autocollimator.
10. What are the different methods for measuring surface roughness?

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 constructional details of universal milling machine with line diagram.
12. Explain the following milling attachments :
(a) Vertical milling attachment
(b) Slotting milling attachment
13. Explain the procedure of spur gear cutting with line diagram.
14. Write the principle of gear shaping and explain constructional details of gear shaping machine with line diagram.
15. Explain the constructional details of centreless grinding machine with neat sketch.
16. Explain constructional details of horizontal spindle surface grinding machine.
- * 17. Explain the working of interferometer with suitable diagram.
18. (a) Explain wire method of metal spraying.
(b) Explain the principle of sine bars.

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