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C14-M-406

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BOARD DIPLOMA EXAMINATION, (C-14)

JUNE—2019

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 any three materials used for making milling cutters.
2. Explain briefly about angular milling cutters.
3. List out various milling attachments.
4. Why gears are heat treated? What are different methods employed for gear teeth heat treatment?
5. Write various gear making methods.
6. Describe the principle of metal spraying.
7. Write the differences between lapping and honing.
8. Write any three differences between centre type grinding and centre less grinding.
9. Write the applications of autocollimator.
10. What are the methods used to measure surface roughness?

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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 vertical milling machine and explain the functions of each part.
12. Explain briefly various tool holding devices on milling machine with neat sketch.
13. What is an indexing? Explain the principle of simple indexing.
14. Explain the operation of gear hobbing with a neat sketch and state its advantages.
15. What are various methods of grinding. Explain with a neat sketch the principle of centre less grinding.
16. Draw a neat sketch of horizontal spindle surface grinder, label the parts and write their functions.
17. (a) Describe electroplating.
(b) Write the principle of an optical flat.
18. Describe with neat sketch the working of sigma mechanical comparator.

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