C14-M-**406**

4482

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH/APRIL-2019

DME - FOURTH SEMESTER EXAMINATION

PRODUCTION TECHNOLOGY – II

Time: 3 Hours] [Max. Marks : 80

PART -A **3x10=30M**

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) Explain the working principle of milling machine.

2) Define the term cutting speed and feed as applied to milling.

3) List out various attachments used on milling machine.

4) What is the necessity of gear finishing?

5) What are the advantages of gears made of plastic material?

6) Define grade. How it effects the selection of grinding wheel.

7) Describe the principle of super finishing.

8) Write any three advantages of centre less grinding.

9) What are the most commonly used dimensional measurements?

10) State the working principe of optical flat.

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PART-B 5x10=50M

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

2) Each question carries **ten** marks.

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

11) List out different types of milling cutters and explain any three with neat sketches.

12) Explain vertical milling machine with line diagram.

13) (a) Explain the principle of simple indexing with line diagram.

(b) Calculate indexing for 35 division.

14) Write the principle of gear and explain the operation of gear hobbing machine.

15) What are the different types of wheel maintenance methods and explain only dressing.

16) Explain vertical spindle rotating table surface grinding machine.

17) Explain the working of autocollimator with detailed diagram.

18) a) Explain optical flat method of measuring surface roughness.

b) Explain parkerising method of metal coating.

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