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.
  - 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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[ Contd....

#### 5x10=50M

#### PART-B

Instructions: 1) Answer any five questions.

- 2) Each question carries ten marks.
- 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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