



C14-M-406

**4452**

**BOARD DIPLOMA EXAMINATION, (C-14)**

MARCH / APRIL - 2019

**DME – IV SEMESTER EXAMINATION**

**MANUFACTURING TECHNOLOGY-II**

Time : 3 Hours]

[Total Marks : 80

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**PART - A**

**3×10=30**

**Instructions :**

- (1) Answer **ALL** questions.
- (2) Each question carries **THREE** marks.
- (3) Answer should be brief and straight to the point and shall not exceed five simple sentences.

- 1 How is milling machine specified ?
- 2 List out the work holding devices used in milling.
- 3 Name any six important parts of a milling machine.
- 4 List the basic gear manufacturing methods.
- 5 Write the various gear finishing operations.
- 6 What are the different bonds used in grinding wheels ?
- 7 Write any three advantages of centre less grinding.
- 8 Write the applications of metal spraying.
- 9 List out different instruments used for linear measurement.
- 10 Write the classification of comparators.

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**PART - B****10×5=50**

- Instructions :**
- (1) Answer any **FIVE** questions.
  - (2) Each question carries **TEN** marks.
  - (3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

- 11 Explain the constructional details of vertical milling machine with a neat sketch.
  - 12 Explain simple indexing with a neat sketch.
  - 13 What are the various milling operations? Explain any four milling operations with the help of suitable sketches.
  - 14 Explain the operation of gear hobbing machine with the help of a neat sketch.
  - 15 Draw a neat sketch of cylindrical centre-type grinding machine. Name the parts and explain their functions.
  - 16 Explain the principle of electro-plating with a neat sketch.
  - 17
    - (a) Explain the process of galvanizing
    - (b) Write a short note on the following
      - i) Sine bar
      - ii) Angle gauge
  - 18 Explain the principle of working of interferometer with a neat sketch.
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