



C14-M-406

4452

BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL—2018
DME—FOURTH SEMESTER EXAMINATION
MANUFACTURING 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. How do you specify a milling machine?
2. List any three types of 'tool holding devices' used in milling.
3. Name any three milling attachments.
4. State any three 'gear finishing' methods.
5. What are the various methods of making gears?
6. Give the marking system of grinding wheels as of ISI.
7. State any three applications of 'lapping'.
8. Mention any three functions of organic coatings.

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9. State any three instruments used for plane surface measurements.
10. State the working principle of the 'optical flat'.

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 the diagram of vertical milling machine and explain the functions of each part.
12. Name the different milling operations and explain any four of them in detail.
13. What is indexing? Describe compound indexing with a neat figure.
14. Explain any four methods of heat treatment of gears.
15. Describe the working of centre-less grinding machine with a neat figure.
16. Explain the 'honing' process with a neat sketch.
17. (a) Explain electroplating.
(b) Sketch and explain bevel protractor.
18. Explain the working of profilometer with a neat sketch.
