



C09-M-306

3250

BOARD DIPLOMA EXAMINATION, (C-09)

MARCH/APRIL—2021

DME - THIRD SEMESTER EXAMINATION

MANUFACTURING TECHNOLOGY - I

Time : 3 hours]

[Total Marks : 80

PART—A

4×5=20

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

1. Write two specifications of the lathe machine.
2. Write classification of lathes.
3. List four parts of a lathe machine.
4. State the working principle of a shaper.
5. Define the term Broaching.
6. State the purpose of lubricants.
7. List four defects in welding process.
8. List four tools and equipment of arc welding.
9. List out the measuring devices used in angular measurements.
10. List different types of mechanical comparators.

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PART—B

15×4=60

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

11. Explain the working principle of Turret lathe with a neat sketch.
12. List out various methods of taper turning and explain any one method of taper turning.
13. (a) List five operations performed on lathe machines.
(b) Draw a neat sketch of slotter and label the parts.
14. Explain the constructional details of planer with a neat sketch.
15. (a) Draw the line diagram of vertical broaching machine and label the parts.
(b) List five properties of lubricants and coolants.
16. Explain the principle of gas welding with a neat sketch.
17. Explain submerged arc welding with a neat sketch.
18. Explain the working of any one type of mechanical comparator with a sketch.

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