



C16-M-304

6245

BOARD DIPLOMA EXAMINATION, (C-16)

JANUARY/FEBRUARY—2022

DME - THIRD SEMESTER EXAMINATION

PRODUCTION TECHNOLOGY - I

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. List out different work holding devices used in engine lathe.
2. List three different methods of taper turning.
3. Give the advantages of capstan lathe over centre lathe.
4. State the main differences between shaper and planer.
5. What is the function of slotter ? How the size of slotter is specified?
6. What are the types of lubricants?
7. State the advantages of ultrasonic welding
8. State the differences between Soldering and Brazing.
9. What is a comparator? How they are classified?
10. List out the instruments for angular measurement

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PART—B

10×5=50

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

11. Draw a line diagram of engine lathe and describe the functions of main parts.
12. Describe the working principle of semi automatic lathe with a neat sketch.
13. Draw a neat sketch of planner and explain the parts.
14. Draw a neat sketch of horizontal broaching machine and explain its working.
15. Explain different methods of applications of cutting fluids.
16. Explain the principle of gas welding and list out the equipment used in oxy-acetylene gas welding.
17. Explain the principle of TIG welding with a neat sketch and state its advantages and limitations.
18. Explain the principle and working of pneumatic comparator with a neat sketch.

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