



C14-M-306

4254

BOARD DIPLOMA EXAMINATION, (C-14)

JUNE—2019

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. How will you specify a Lathe?
2. List out different work-holding devices used for Lathe.
3. Write the advantages of Copying Lathes.
4. What operations can be done on Shaper.
5. What are the different types of Planer.
6. State the working principle of Slotter.
7. State the functions of cutting fluids.
8. What is the difference between Pressure Welding and Non-pressure Welding?
9. Write the properties of good Soldering Flux.
10. List out the various gas Welding Techniques.

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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. With help of sketches explain the following lathe operations :
  - (a) Chamfering
  - (b) Forming
  - (c) Drilling
  - (d) Parting-off
12. What are the differences between Capstan Lathe and Turret Lathe?
13. Draw a neat sketch of shaper and describe its main parts.
14. Explain different operations performed in a Slotter.
15. Explain the horizontal broaching machine with the help of sketch.
16. Explain the different types of Lubricants.
17. Describe the defects in Welds.
18. Explain the Ultrasonic Welding with neat sketch and mention its applications.

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