

6245

BOARD DIPLOMA EXAMINATIONS

OCT/NOV-2019

DME – THIRD SEMESTER

PRODUCTION TECHNOLOGY-I

Time: 3 hours

Max. Marks: 80

PART – A

3 X 10 = 30

- Instructions:**
1. Answer **all** questions.
 2. Each question carries **Three** Marks.
 3. Answer should be brief and straight to the point and should not exceed Five simple sentences.

1. List the different work holding devices for lathe work.
2. State the functions of End relief and Side relief angles.
3. State the applications of a Copying lathe.
4. How do you specify a Slotter?
5. List the work holding devices in Shaper.
6. State the functions of Cutting Fluids.
7. State any three advantages of Welding.
8. State the principle of Arc welding.
9. List out the various linear measuring instruments.
10. State the principle of Dial indicator.

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PART – B

5 X 10 = 50

- Instructions:**
1. Answer any **Five** questions
 2. Each question carries **TEN** Marks.
 3. Answer should be comprehensive and Criteria for Valuation is the content but not the length of the answer.

11. With the help of neat sketches, explain the following Lathe operations.
a) Centering b) Facing c) Parting-off.
12. Explain the functions of main parts of a capstan lathe with a neat sketch.
13. Explain the principle of Hydraulic drive mechanism of Shaper
with a neat sketch
14. With a neat sketch, describe various elements of Horizontal type broach.
15. Explain different types of lubricants.
16. With neat sketches, explain a) Leftward gas welding
b) Rightward gas welding techniques.
17. Write short notes on
a) Soldering
b) Brazing
18. Explain the working principle of Pneumatic comparator with a neat sketch,

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