

3250
BOARD DIPLOMA EXAMINATION, (C-09)
MARCH/APRIL - 2019
DIPLOMA IN MECHANICAL ENGINEERING
MANUFACTURING TECHNOLOGY I
THIRD SEMESTER EXAMINATION

Time: 3 Hours

Total Marks: 80

PART - A (10 x 3 = 30 Marks)

Note 1: Answer all questions and each question carries 3 marks

2: Answers should be brief and straight to the point and shall not exceed 5 simple sentences

1. Define the term "Cutting Speed" with respect to lathe?
2. State atleast two differences between 3-Jaw Chuck and 4 Jaw Chuck?
3. List out any six types of lathes?
4. Mention the common operations performed on a Planner?
5. List various operations done on Broaching machine?
6. Define viscosity of a lubricant?
7. What is neutral flame with respect to gas welding?
8. Write any three advantages of welding?
9. State the working principle of an optical flat?
10. Classify comparators?

PART - B (5 x 10 = 50 Marks)

Note 1: Answer any five questions and each question carries 10 marks

2: The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer

11. Describe the working principle of a semi automatic lathe with a neat sketch?
12. List out various methods of taper turning. Explain about compound rest method?
- * 13. Write the functions of all parts of Slotter with a line diagram?
14. Differentiate between Welding, Brazing and Soldering?
15. Describe the Oxy-acetylene welding equipment and operation in detail?
16. Explain the principle and operation of an Interferometer with a line diagram?
- 17A. Explain the various tool angles of a single point cutting tool?
 B. Explain the advantages of a hydraulic Shaper?
- 18A. Classify and explain various types of Broaches?
 B. What are the functions of Cutting Fluids?

- xxx -

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