



C09-M-306

**3250**

**BOARD DIPLOMA EXAMINATION, (C-09)  
OCTOBER/NOVEMBER-2018  
DME- THIRD SEMESTER EXAMINATION**

MANUFACTURING TECHNOLOGY-I

Time : 3 Hours ]

[ Total Marks: 80

**PART-A**

3X10=30

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

1. What is the use of follower rest?
2. List out any six applications of Copying lathe?
3. List out any six types of lathes?
4. Mention any three operations performed on a Slotter?
5. Mention any three limitations of Broaching?
6. Write the advantages of cutting fluids?
7. What do you understand by gas cutting.
8. Classify the welding methods?
9. Mention the various Optical Instruments employed for measuring surface roughness?
10. Write the applications of autocollimator?

**PART-B**

10X5=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. List out various methods of taper turning. Explain about compound rest method?

12. Write short notes on following parts?

(a) Steady Rest (b) Tail Stock (c) 3-Jaw Chuck?

13. Explain the quick return mechanism of a Planner table with a line diagram?

14. Describe the CO<sub>2</sub> welding process and write its advantages and limitations?

15. Explain the process of Gas welding and writes its advantages and limitations?

16. Explain the mechanism of dial indicator with a sketch.

17. (a) State five differences between Turret Lathe and Engine Lathe?

(b) Describe the working principle of the following

i) Shaper?      ii) Slotter?

\* 18. (a) Explain the horizontal continuous Broaching machine with a sketch?

(b) Write about the properties of lubricants?

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