C09-M-306



[°] * **3250** BOARD DIPLOMA EXAMINATION, (C-09) OCT / NOV- 2015 DME - THIRD SEMESTER EXAMINATION MANUFACTURING TECHNOLOGY – I

Time : 3 hours]

[Total Marks : 80

PART – A

3 X 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 sentencess.
- **1.** What is the function of lathe?
- 2. What are lathe accessories used in engine lathe?
- 3. List three different methods of tapper turning.
- 4. Explain the working principle of shaper.
- 5. What is broaching? How is it done?
- 6. What are the types of lubricants?
- 7. What is the difference between the pressure welding and fusion welding?
- 8. State the advantages of ultrasonic welding.
- 9. List the types of mechanical comparators.
- 10. State the working principle of an optical flat.

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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. Draw the line diagram of engine lathe and describe the functions of main parts.

12. Explain common tool holding and work holding devices on turret lathe.

- **13.** *a)* Write any five advantages of capstan lathe.
 - b) Explain the working principle of planer with neat sketch.
- 14. Explain the principle of Whitworth quick return mechanism of shaper.
- **15.** *a)* Write short note on Horizontal continuous Broaching machine with a line diagram.
 - b) Explain the methods of application of cutting fluids.
- **16.** *a)* Explain with neat sketch the principle of are welding.
 - b) Explain with neat sketch the left-ward gas welding technique.
- **17.** Withe the help of line diagram explain the principle of Oxy-Acetylene flame welding.
- **18.** Draw a neat sketch of profilometer and explain its working.

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