

# со9-м-306

# 3250

## BOARD DIPLOMA EXAMINATION, (C-09) OCT/NOV-2018

### DME—THIRD SEMESTER EXAMINATION

MANUFACTURING TECHNOLOGY-I

Time : 3 hours ]

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[ 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.** List three different methods of taper turning.
- **2.** Give any three differences between turret lathe and centre lathe.
- **3.** What is knurling and what is its purpose? 2+1=3
- 4. Write any six advantages of broaching.
- 5. State the main differences between shaper and planer.
- **6.** Write any three factors to be considered while selecting the cutting fluids.
- 7. What are the limitations of gas welding?
- 8. List any six accessories used in arc welding.
- 9. List out the mechanical comparators.
- **10.** List different methods of measuring surface roughness.
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PART—B

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- (2) Each question carries ten marks.
- (3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.
- **11.** Draw a line diagram of capstan lathe and describe the functions of main parts. 5+5=10
- **12.** Write short notes on the following : 3+4+3=10
  - (a) Steady rest
  - (b) Tail stock
  - (c) Three jaw chuck
- 13. Explain the principle of Whitworth quick return mechanism of shaper with a neat sketch. 5+5=10
- 14. Describe briefly the submerged arc welding and state its advantages and limitations.6+2+2=10
- 15. List out various defects caused in welding and explain any four of them. 2+2×4=10
- **16.** (a) With the aid of neat sketches, explain the following operations :  $2\frac{1}{2}+2\frac{1}{2}=5$ 
  - (i) Facing
  - (ii) Centering
  - (b) Draw a line diagram of slotter and indicate its main parts on it.
- 17. (a) Draw a line diagram of vertical broaching machine and mention parts on it.5
  - (b) Discuss the properties of cutting fluids. 5
- **18.** Explain the working of profilometer with a neat sketch. 5+5=10

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