

# 6245

# С16-M-**304** С-16) UNA DIST A.P **BOARD DIPLOMA EXAMINATION, (C-16)**

#### MARCH/APRIL--2018

### DME—THIRD SEMESTER EXAMINATION

PRODUCTION TECHNOLO

Time : 3 hours

[ Total Marks : 80

## PART

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.
- State the working principle of lathe. 1.
- Write the functions of back rake and side rake angles. 2.
- State the need of a copying lathe. 3.
- How do you specify a shaper?
  - Name the work-holding devices of planer.
- State the classifications of lubricants. 6.
- State the differences between pressure welding and fusion 7. welding.
- **8.** Differentiate between left-ward and right-ward welding techniques.
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- 9. Classify measuring instruments with examples.
- **10.** Name various types of comparators.

#### PART—B

Instructions : (1) Answer any five questions.

- (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.** With the help of a line diagram, describe the functions of main parts of a lathe machine. 5+5
- **12.** Write the differences between capstan lathe and turret lathe.
- 13. With a neat sketch, explain the withworth quick return mechanism of shaper.
- 14. State the advantages and limitations of broaching machines.

5+5

10×5=50 p.

**15.** Explain different methods of applying cutting fluids in machining processes.

16. Write the differences between TIG welding and MIG welding.

With a neat sketch, explain the ultrasonic welding process. 5+5

18. With a neat sketch, explain the working principle of a sigma mechanical comparator.5+5

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