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С16-M-**304** С-16) ЦМА DIST А.Р **BOARD DIPLOMA EXAMINATION, (C-16)**

OCT/NOV—2018

DME—THIRD SEMESTER EXAMIN

PRODUCTION TECHNOLO

Time : 3 hours

[Total Marks : 80

PART

3×10=30

Instructions : (1) Answer all question

- (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 out any six types of lathes.
- State the differences between 4-jaw chuck and 3-jaw chuck. 2.
- 3. Write the differences between automatic lathe and semiautomatic lathe

Write any three advantages of hydraulic shaper.

- List out any six work-holding devices used in planer.
 - 6. Mention any three purposes of lubricants.
 - 7. List the equipment necessary for gas welding.
 - **8.** State the principle of brazing.

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- **9.** List out different instruments used for linear and angular measurements.
- 10. Write the applications of autocollimator.

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.** List different methods of taper turning and explain taper turning by the compound rest method with a neat sketch.

2+4+4=10

10×5=50 p

- **12.** Draw a neat sketch of turret lathe and explain its working. 5+5=10
- 13. Explain with a neat sketch, the crank and slotted lever mechanism used in a shaper. 5+5=10
- 14. Draw a neat sketch of horizontal broaching machine and explain its working.5+5=10
- 15. Write any four functions of cutting fluids. Explain different methods of application of cutting fluids. 4+6=10
- 16. (a) Explain with a neat sketch, the working principle of arc welding.5
 - (b) Explain the left-ward gas welding technique with a neat sketch.

17. Explain the principle of ultrasonic welding with a neat sketch. State its advantages and applications. 3+3+2+2=10

18. Describe the working principle of optical comparator with a neat sketch. 5+5=10

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