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## с20-м-306

### 7261

#### BOARD DIPLOMA EXAMINATION, (C-20)

#### JUNE/JULY-2022

#### DME - THIRD SEMESTER EXAMINATION

#### PRODUCTION TECHNOLOGY - I

Time: 3 hours ]

#### PART—A

3×10=30

[ Total Marks: 80

Instructions : (1) Answer all questions.

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- (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 any six types of lathe machines.
- 2. List out any three work holding devices on lathe.
- 3. How does cutting fluids improve the tool life?
- 4. State the main difference of planer from shaper.
- 5. Write the importance of quick return mechanism in shaper.
- 6. Write any three specifications of lathe machine.
- 7. Draw the diagram of jet method.
- 8. List any three properties of cutting fluids.
- 9. Sketch an oxyacetylene frame and identify the various zones.
- 10. What is brazing?

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Instructions : (1) Answer all questions.

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- (2) Each question carries eight marks.
- (3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.
- 11. (a) Explain with diagram the four parts in single point cutting tool.

(OR)

- (b) Explain with diagram the taper turning by the compound rest method.
- 12. (a) Explain with legible sketch, the working of the tail stock.

(OR)

- (b) Write any four difference between three jaw chuck and four jaw chuck.
- 13. (a) Explain with line diagram the rotary table continuous broaching machine.

(OR)

- *(b)* Write the four advantages and four limitations of broaching machine.
- 14. (a) Explain with legible sketch the working principle of gas welding.

(OR)

- (b) Explain with sketch the principle of ultrasonic welding.
- 15. (a) Describe with sketch the procedure for submerged arc welding.

(OR)

(b) Explain with diagram the working principle of MIG welding.

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Instructions : (1) Answer the following question.

- (2) The question carries ten marks.
- (3) Answer should be comprehensive and criterion for valuation is the content but not the length of the answer.
- 16. Draw the diagram of quick return motion is affected due to the difference in volume of oil at both ends in shaper.



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