



C20-M-306

7261

BOARD DIPLOMA EXAMINATION, (C-20)

FEBRUARY/MARCH — 2022

DME - THIRD SEMESTER EXAMINATION

PRODUCTION TECHNOLOGY - I

Time : 3 hours]

[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 any six types of lathe operations.
2. Write any three specifications of engine lathe.
3. How do you specify a shaper?
4. Mention any six types of work holding devices.
5. Mention any three types of planer operations.
6. What is a cutting fluid?
7. How does cutting fluid improve the tool life?
- * 8. List any three operations performed on slotter.
9. Write the pressure welding.
10. What is fusion welding?

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PART—B

8×5=40

- Instructions :** (1) Answer **all** questions.
(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 procedure for thread cutting on a lathe machine.

(OR)

- (b) Explain with diagram the taper turning by tail stock set over method.

- 12.** (a) Explain with diagram any two types of work holding devices.

(OR)

- (b) Explain with diagram taper turning by taper attachment.

- 13.** (a) Describe the horizontal broaching machine with a legible sketch.

(OR)

- (b) Explain with diagram the nomenclature of broach tooth.

- 14.** (a) Explain with sketch the working of TIG welding.

(OR)

- (b) Explain with sketch the working of atomic hydrogen welding.

- 15.** (a) Describe with sketch the procedure for sub merged arc welding.

(OR)

- (b) Explain any four defects in welding.

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PART—C

10×1=10

- 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.** Explain the procedure to perform plain machining operation on a planer with MS block 75 × 25 × 25 mm.

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