

6057

BOARD DIPLOMA EXAMINATION, (C-16)

MARCH/APRIL—2021

DME - FIRST YEAR EXAMINATION

WORKSHOP TECHNOLOGY

Time : 3 hours]

[Total Marks : 80

PART—A

- 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.
(4) Draw only line diagrams, wherever necessary.

1. List any six types of planes used in carpentry. ½×6=3
2. Sketch the Hacksaw and label the parts. 2+1
3. What is a tap? Name the three taps in a set. 1+2
4. List any three common defects in forging. 3
5. List any three fuels used in forging. 3
6. List any three metals used in sheet metal work. 3
7. List any six types of patterns used in foundry. 6×½=3
8. What is the purpose of core in the foundry? 3
9. Write any three advantages of hot working. 3
10. State the difference between reeling and rolling. 3

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PART—B

- Instructions :** (1) Answer *any five* questions.
(2) Each question carries **ten** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.
(4) Draw only line diagrams, wherever necessary.

- 11.** Explain the making of mortise and tenon Joint with a neat sketch. 5+5
- 12.** Explain the working of vernier height gauge with a neat sketch. 5+5
- 13.** Describe with the aid of neat sketches, the following hand forging operations : 5+5
(a) Drawing down
(b) Upsetting
- 14.** Explain any four types of snips used in sheet metal work with sketches. 2½×4
- 15.** Explain the working of radial drilling machine with a neat sketch. 5+5
- 16.** Explain investment casting with a neat sketch. 5+5
- 17.** Explain direct and indirect hot extrusion processes with neat sketches. 5+5
- * **18.** Explain vertical band saw with a neat sketch. 5+5

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