



C16-M/RAC-106

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. $2\frac{1}{2} \times 4$
- 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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