



C16-M/RAC-106

**6057**

**BOARD DIPLOMA EXAMINATION, (C-16)**

**OCT/NOV—2018**

**DME—FIRST YEAR EXAMINATION**

**WORKSHOP TECHNOLOGY**

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. State the difference between marking gauge and mortise gauge.
2. State the use of (a) Feeler gauge (b) Radius and fillet gauge (c) Ring gauge.
3. List out any six types of files used in fitting.
4. List any three types of hammers used in forging.
5. Explain with sketches, the following hand forging operations.  
(a) Upsetting (b) Setting down
6. Draw a neat sketch of stake and name the parts.
7. What are different types of moulding sands?
8. What are the main advantages and disadvantages of die casting?
9. List out any three cold working processes.
10. What is cold working? List out four methods of cold working?

**PART-B**

10×5=50

- Instructions :** (1) Answer *any five* questions.  
(2) Each questions carries **ten** marks.  
(3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.

- 11.** Write the uses of the following tools :  
(a) Bradwal (b) Pincer (c) Try square (d) Gouges.
- 12.** Explain the following fitting operations  
(a) Filing (b) Tapping (c) Dieing.
- 13.** Name the different types of power hammers explain the working of system hammer.
- 14.** (a) List out six types of seams as applied in sheet metal work.  
(b) Draw and explain four types of seams.
- 15.** Draw and explain the working of sensitive drilling machine with a neat sketch.
- 16.** Explain the process of shell moulding. Write the advantages, disadvantages and applications of shell moulding.
- 17.** (a) What are the advantages and disadvantages of hot working over cold working.  
(b) Describe the process of indirect extrusion with a neat sketch.
- 18.** Explain the working of power hacksaw with a neat sketch. Write its advantages.

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