



C-14-M-106/RAC-106

4055

BOARD DIPLOMA EXAMINATION, (C-14)

APRIL/MAY—2015

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. Write the specific applications of any three measuring tools in carpentry. 1×3=3
2. List out different holding tools used in carpentry. ½×6
3. Write a short note on sine bar. 3
4. Write about file card. 3
5. What are the advantages and disadvantages of forging? 1½+1½
6. Draw a neat sketch of stake and name its parts. 1½+1½
7. List out six pricing operations. ½×6=3
8. What is meant by sand binder? Name the types of sand binder. 1½+1½
9. Explain any two hand moulding tools with a neat sketch. 1½+1½
10. Explain the principle of hot rolling. 3

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**PART—B**

10×5=50

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

- 11.** Explain the following hand saws used in carpentry with a neat sketch : 3+3+2+2  
(a) Ripsaw  
(b) Bow saw  
(c) Dovetail saw  
(d) Keyhole saw
- 12.** What is tap? Explain different types of tap that are used in fitting with a neat sketch. 4+6
- 13.** Explain the construction and working principle of vernier height gauge with a neat sketch. 5+5
- 14.** (a) List out the forging operations. 2  
(b) Explain any four forging operations with a suitable diagram. 8
- 15.** (a) List out any four types of seam as applied in sheet metal work. 2  
(b) Draw and explain four types of seam. 8
- 16.** Explain any five operations performed on drilling machine. 2×5=10
- 17.** (a) List any four materials used for pattern making. 2  
(b) Explain any four properties of a moulding sand. 8
- 18.** (a) Write four advantages of hot working process. ½×4=2  
(b) Explain the following hot working processes : 4+4  
(i) Extrusion  
(ii) Drawing (cupping)

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