



C09-M-105/RAC-105

**3043**

**BOARD DIPLOMA EXAMINATION, (C-09)**

**MARCH/APRIL—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. List out six types of manufacturing processes.
2. Draw a neat sketch of bow saw and state its purpose.
3. List three safety precautions that should be observed while filing.
4. Differentiate between swaging and fullering.
5. Draw and label the parts of blow horn stake.
6. What is pattern? Explain briefly the allowances provided on pattern.
7. List the properties of green sand.
8. Draw a neat sketch of moulding flask and label the parts.

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9. State the <sup>\*</sup>advantages of radial drilling machine.
10. Define (a) hardness and (b) brittleness.

**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. (a) What are the different joints used in the carpentry?  
(b) Describe the following with neat sketches :  
(i) Mortise and tenon joint  
(ii) Dovetail joint
12. What is a reamer? Explain three types of reamers with neat sketches.
13. What is machine or upset forging? Explain how it is done.
14. (a) List out six types of seams as applied sheet metal work.  
(b) Draw and explain four types of seams.
15. Explain investment casting. Write its advantages, disadvantages and applications.
16. Draw and explain any five types of drills.
17. (a) What is setting of saw? Why is it done? List three types of teeth setting.  
(b) What materials are generally used in manufacturing saw?
18. Describe the following hot working processes :  
(a) Rolling  
(b) Piercing  
(c) Deep drawing  
(d) Extrusion

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