

**INDIAN MARITIME UNIVERSITY**  
(A Central University, Government of India)  
**End Semester Examinations December 2018**  
**B.Tech (Marine Engineering)**  
Semester-I  
**Workshop Technology (UG11T2106)**

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Date: 09.01.2019  
Time: 3Hrs

Maximum Marks: 100  
Pass Marks: 50

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**PART-A**

(10X3=30 marks)

**(All are Compulsory Questions)**

1. a. Draw and label the parts of a Ballpeen Hammer.
- b. Explain the advantages of using cutting fluid.
- c. What are the three different types of chip formation.
- d. Mention any three properties of tool material.
- e. Draw and mention the uses of a center punch.
- f. Draw and mention the use of Try Square.
- g. Explain about Soldering.
- h. Explain the safeties followed during welding.
- i. Write in brief about the marking of machine parts for fitting.
- j. Write any three advantages of Housekeeping.

**PART-B**

(5X14=70 marks)

**(Answer any five of the following)**

2. (7+7=14)
  - a. Draw and explain different types and classifications of files.
  - b. Draw any one type of bench vice and explain its uses.
3. (7+7=14)
  - a. Draw a Lathe and label the parts?
  - b. Draw and Explain a Turret and write the advantages of Turret lathe?

4. (7+7=14)
- a. Draw a single point cutting tool and explain about its nomenclature and various cutting angles?
  - b. write down the difference between orthogonal and oblique cutting?

5. (7+7=14)
- a. Explain the process of Grinding and the various safety procedures to be followed while doing grinding.
  - b. Draw and label a Vernier caliper. Mention about the various care and procedures to be followed while handling and storing precision instruments.

6. (7+7=14)
- a. Explain in detail about Gas welding.
  - b. With a neat sketch explain the various defects in welding.

7. (7+7=14)
- a. Draw a neat sketch of Gate Valve and label the parts.
  - b. Explain in detail about the properties and uses of various types of packing materials.

8. (7+7=14)
- a. Briefly explain Factory Act Regulations.
  - b. Explain optical method of measurement.

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