INDIAN MARITIME UNIVERSITY (A Central University, Government of India) End Semester Examination June / July 2019 B.Tech (Marine Engineering) Semester – I Workshop Technology (UG11T2106)

Date: 20-07-2019	Maximum Marks: 100
Time: 3 Hrs	Pass Marks: 50

PART – A (10 X 3 = 30 Marks) (All are Compulsory Questions)

- 1. a. Draw and mention the uses of Try Square.
 - b. Explain the function of a Planing Machine.
 - c. What are the different jobs carried out on Lathe Machine?
 - d. Mention the factors affecting tool life.
 - e. Define the process of Lapping.
 - f. What is least count of Vernier Calliper?
 - g. Define Weldability. What all factors it depend upon?
 - h. What are the hazards to health and safeties associated with welding?
 - i. Explain the function of Pressure Reducing valve of Air and Steam on board ships.
 - j. Mention the various PPEs used in Engine Room on board Ships.

PART B 5 X 14 Marks = 70 Marks (Answer any 5 of the following)

2 (a). Explain with sketches different types of Callipers used. (7 marks)(b). Draw a Bench Vice and mention the parts. (7 marks)

3 (a). Draw a Lathe and label it parts. (10 marks) (b). Differentiate between Turret and Capstan Lathe Machine. (4 marks)

4 (a). Draw and explain the Nomenclature of Cutting Tool. (b). Explain the different wears that occur in a cutting	(8 marks)	
Tool.	(6 marks)	
5 (a). Write short notes on the following: (i) Honing, (ii) Buffing, (b). Draw and explain the operation of Inside Micrometre.	(6 marks) (8 marks)	
 6 (a). Briefly describe with sketch the Oxy-Acetylene Gas Welding Process. (7 marks) (b). What are different type of flames used in Oxy-Acetylene welding? (7 marks) 		
7 (a). Sketch a "Screw down non return" Globe Valve and name its		
parts.	(7 marks)	
(b). What is the function of Gland Packing. What are the p good Gland Packing (3 marks	s + 4 marks)	
8 (a). Write a short note on Factory Act Regulation. (b). Briefly describe the TIG welding Process.	(7 marks) (7 marks)	
