INDIAN MARITIME UNIVERSITY

(A Central University, Government of India)

End Semester Examination Dec 2019/Jan 2020

B.Tech (Marine Engineering) Semester -I

UG11T1106/2106- Workshop Technology

DG1111106/2106- Workshop Technology Date: 21.12.2019 Max Marks: 70	
Time: 3 Hours	Pass Marks: 35
Part-A (10X2=20 marks) (All are Compulsory Questions.)	
 Explain working principle of milling machine. List out types of chucks used on a center lathe. List out applications of surface plate and scriber. Explain advantages of using cutting fluid in metal Explain the term lapping. Explain use of dial gauge and feeler gauge in wor Explain in brief MIG welding. Explain purpose of using flux during welding. Explain function of pressure reducing valve. List out sources of accident in the workshop. 	-
<u>Part-B</u> (Answer any five of the follo	(5X10=50 marks) wing)
 11. a. With suitable sketch explain use of die and die s b. What is reamer? Explain different types. 	(5+5= 10 marks) tock.
12.a. With a neat sketch explain working of sensible drb. Draw a turret lathe and label the parts.	(5+5= 10 marks) illing machine
13.a. Explain the terms cutting speed, feed, shank andb. What are common tool failures? List out properties	
14.a. Briefly explain honing processb. With suitable sketch explain use of inside microme	(5+5= 10 marks) eter.
15.a. Explain the procedure for peening of weld.b. Draw a labelled sketch of various types of welding	(5+5= 10 marks) joints.
16.a. With suitable sketch explain use of keys and cotteb. Explain procedure for bedding in of bearings.	(5+5= 10 marks) ers in engineering
17.a. What are the safety measures to prevent electricab. With a neat sketch explain welding defects and cat three).	