

INDIAN MARITIME UNIVERSITY

(A Central University, Government of India)

END SEMESTER EXAMINATION DEC 2017

Programme: B.Tech (Marine Engineering)

Semester: I

Subject Name: Workshop Technology

Subject code: UG11T3106/
UG11T2106/UG11T1106

Date: 18.12.2017

Maximum Marks: 100

Time: 2.00PM to 5.00PM

Pass Marks: 50

PART – A

10 X 3 Marks = 30 Marks

(All questions are compulsory)

1. (a) Draw and mention the uses of a Try Square.
- (b) Mention the various methods of filing.
- (c) Explain the term Turret in Lathe.
- (d) Mention the factors affecting the tool life.
- (e) Explain the term Reaming.
- (f) Draw a Vernier Scale and label the parts.
- (g) Explain TIG welding.
- (h) Explain Brazing and mention its uses onboard ship.
- (i) Mention any two Gasket Material and its Use onboard ship.
- (j) Mention the various PPE's used in Engine room.

PART – B

5 X 14 Marks = 70 Marks

(Answer any 5 of the following)

2. (a) Draw a neat sketch and explain the Nomenclature of Twist drill. (10 Marks)
(b) Explain the term Tapping & Threading. (4 Marks)
3. (a) Draw a neat sketch and label the parts of a Lathe. (10 Marks)
(b) Mention any five operations performed on lathe. (4 Marks)
4. (a) Draw and Explain the Nomenclature of Cutting Tool. (10 Marks)
(b) Mention the Causes of Failure of Cutting Tool. (4 Marks)
5. Draw and explain the following
 - (a) Thread Gauge (4 Marks)
 - (b) Bridge gauge (5 Marks)
 - (c) Optical Measurement (5Marks)
6. (a) Explain the Defects in Welding with a Neat Sketch. (10 Marks)
(b) Explain Non destructive testing. (4 Marks)
7. (a) Write in detail About Risk Assessment. (8 Marks)
(b) Explain Safe Working Practice. (6 Marks)
8. (a) Write an essay about Factory Act Regulation. (14 Marks)
