



# TECHNICAL UNIVERSITY OF MOMBASA

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FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF PURE & APPLIED SCIENCES

**UNIVERSITY EXAMINATION FOR:**

**DIPLOMA IN NAUTICAL SCIENCE**

**ANS 2101 : SEAMANSHIP I**

**END OF SEMESTER EXAMINATION**

**SERIES: APRIL 2016**

**TIME: 2 HOURS**

**DATE: Pick Date May 2016**

## Instructions to Candidates

You should have the following for this examination

*-Answer Booklet, examination pass and student ID*

This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other TWO questions.

**Do not write on the question paper.**

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## **Question ONE**

- State five types of ships and describe the cargo they transport (10 Marks)
- Explain the preparation of a metal surface for painting and the types of paints used (10 marks)

## **Question TWO**

- Describe THREE (3) causes of corrosion and how to prevent corrosion (9 marks)
- Outline FIVE (5 Parts of a lifeboat (5 Marks)
- With the aid of a sketch describe the admiralty anchor and label its parts (6 marks)

## **Question THREE**

- With the aid of a sketch describe Heavy Lift (Jumbo) Derrick (8 Marks)
- Explain the following terms
  - Bowline
  - Freeboard
  - Poop deck
  - Forepeak tank (12 marks)

#### **Question FOUR**

With the aid of a sketch, describe the cross section of a ship indicating and discussing in details the structural members (20 Marks)

#### **Question FIVE**

- a. Outline the actions to take during the emergencies when abandoning the ship (8 Marks)
- b. Describe the securing arrangements of an anchor (4 Marks)
- c. Explain what is meant by the term bulbous keel (3 Marks)