



TECHNICAL UNIVERSITY OF MOMBASA

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.

Question ONE

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

Question TWO

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

Question THREE

- a. With the aid of a sketch describe Heavy Lift (Jumbo) Derrick (8 Marks)
- b. Explain the following terms
 - i). Bowline
 - ii). Freeboard
 - iii). Poop deck
 - iv). 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)