



TECHNICAL UNIVERSITY OF MOMBASA
FACULTY OF APPLIED AND HEALTH SCIENCES
DEPARTMENT OF PURE AND APPLIED SCIENCES
DIPLOMA IN NAUTICAL SCIENCES (DNSC 15S)

ANS 2101: SEAMANSHIP

END SEMESTER EXAMINATIONS

SERIES: DECEMBER 2015

TIME: 2 HOURS

INSTRUCTIONS:

You should have the following for this paper

-Answer booklet

- This paper consists of **FIVE** questions.
- Answer Question **ONE (compulsory)** and any other **TWO** Questions.
- Do **NOT** write on this paper
- **This paper consists of TWO Printed Pages**

Q1. (a) Define the following terms:

- | | |
|-------------------------|-----------|
| (i) Auto pilot | (2 marks) |
| (ii) Right handed rope | (2 marks) |
| (iii) Bosun chair | (2 marks) |
| (iv) A stage | (2 marks) |
| (iv) Emergency steering | (2 marks) |

(b) Describe the procedure to let go the anchor. (8 marks)

Q2. (a) Describe the characteristics of ropes when in use. (12 marks)

(b) List 3 types of ships. (3 marks)

- Q3. (a) With an aid of a diagram draw a well labeled stockless anchor. **(10 marks)**
(b) Explain the evolution of ancient vessels to modern ones. **(5 marks)**
- Q4. (a) With an aid of a diagram draw a life boat and name all principal parts. **(10 marks)**
(b) Explain the preparation of a bare iron plate for painting to prevent rust. **(5 marks)**
- Q5. (a) Discuss the advantages of the wire ropes over the natural fibers and vice versa. **(10 marks)**
(b) With an aid of a sketch draw the load line mark and label the parts. **(5 marks)**