



# TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF PURE & APPLIED SCIENCES

**UNIVERSITY EXAMINATION FOR:**

**DIPLOMA IN NAUTICAL SCIENCE DNSC 13M**

**ANS 2310 : SHIP HANDLING II**

**END OF SEMESTER EXAMINATION**

**SERIES: APRIL 2016**

**TIME: 2 HOURS**

**DATE:** Pick Date Select Month Pick Year

## Instructions to Candidates

You should have the following for this examination

*-Answer Booklet, examination pass and student ID*

This paper consists of Choose No questions. Attempt Choose instruction.

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

## **Question ONE**

- (a) i) Explain what is taken into consideration when maneuvering a vessel within the port area. 10 Marks.
- ii) Outline five publications which are required for ship handling. 5 Marks.
- iii) Explain the effects of shallow waters when handling the vessel? 5 Marks.

## **Question TWO**

- (a) Outline and discuss the responsibilities of an officer of the watch when the ship is anchorage. 10 Marks.
- (b) Describe rule No. 14 of the international regulations for preventing collision at sea. 10 Marks.

## **Question THREE**

3 (a) Explain the meaning of the following terms.

(i) Astern

(ii) Poop Deck Cofferdam

(iii) Load-line Mark

(iv) Anchor

(v) Air-draft

5 marks

(b) With any aid of a sketch, describe a load line mark and label all the parts.

10 Marks.

(c) List down any five types of anchors.

5 Marks

#### **Question FOUR**

4. (a) Describe the stages of passage planning from sea to an anchorage.

20 Marks

#### **Question FIVE**

(a) Explain the following terms

- i. Trim
- ii. Mean draft
- iii. Marine Pollution
- iv. Foul anchor
- v. Heel

5 marks

(b) Explain in details the consideration taken into account when choosing a place suitable for anchoring a vessel

10 Marks

(c) Describe the following terms;

- i. Bow thruster
- ii. Controllable pitch propeller
- iii. Dragging anchor
- iv. Tide
- v. Pilot ladder

5 marks