TECHNICAL UNIVERSITY OF MOMBASA SCHOOL OF BUSINESS BMM 4201 - MARITIME INFORMATION TECHNOLOGY EXAM ONE YEAR II – 1ST SEMESTER 2016/2017 ACADEMIC YEAR

QUESTION ONE

- a) Define the term ICT and describe the various fields of onshore and offshore maritime and their areas of application (10 Marks)
- b) Describe the concept of maritime communication and analyze the main types of terrestrial and non-terrestrial communication in the maritime transportation (**10 Marks**)
- c) Discuss five reasons why various maritime ICT applications are regulated through maritime conventions. Support your answers with two examples of regulated applications. (10 Marks)

QUESTION TWO

- a) Describe the features of maritime safety communication and identify two navigation information communication systems (**10 Marks**)
- b) Discuss the characteristics of ship identification number and its role in maritime information management (**10 Marks**)

QUESTION THREE

- a) Analyze the various forms of ICT application in commercial shipping (10 Marks)
- **b**) History has been harsh on electronic bills of lading. Evaluate the challenges of an electronic bill of lading (**10 Marks**)

QUESTION FOUR

- a) Describe the role of various Customs based ICT technologies (10 Marks)
- b) Analyze key factors e-Maritime ICT systems address (10 Marks)

QUESTION FIVE

- a) Describe various models of Port ICT systems and their functions (10 Marks)
- b) Analyze the concept of single window systems and describe five benefits of Kenya Electronic Single Window System (**10 Marks**)