



**MASENO UNIVERSITY**  
**UNIVERSITY EXAMINATIONS 2015/2016**

**FIRST YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE  
OF BACHELOR OF EDUCATION WITH INFORMATION  
TECHNOLOGY**

**HOMABAY CAMPUS – SCHOOL BASED**

**UCI 102: COMPUTER COMMUNICATION SYSTEMS**

Date: 29<sup>th</sup> April, 2016

Time: 11.00 - 1.00pm

**INSTRUCTIONS:**

- **Answer Question and any other TWO Questions**
- **Mobile phones are prohibited in the examination room.**



**QUESTION ONE (30 MARKS)**

- (a) Computer networks, based on geographical coverage, can be categorized into three categories; Name them and discuss their distinguishing factors. (8marks)
- (b) Differentiate and using examples between guided and unguided transmission media(4 marks)
- (c) The term transmission mode is used to define the direction of the signal flow between two linked devices, with the diagrams Explain the three data transmission models(6 marks)
- (d) State and Explain FOUR components of a network system.(8marks)
- (e) Define the following terms as used in networking(4 marks)
- i) Client
  - ii) Server
  - iii) Protocol
  - iv) Peer