



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2015/2016

**FIRST YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE
OF BACHELOR OF BACHELOR OF SCIENCE, BACHELOR OF
EDUCATION AND BACHELOR OF ARTS WITH INFORMATION
TECHNOLOGY**

CITY CAMPUS-(DAY/EVENING/WEEKEND)

UCI 102: COMPUTER COMMUNICATIONS SYSTEMS

Date: 5th December, 2015

Time: 9.00 - 11.00 am

INSTRUCTIONS:

- Answer ALL questions in SECTION A and ANY TWO from SECTION B in the answer booklet provided.



- Q1. (a) (i) Define the term Computer Network. **2 marks**
- (ii) Briefly discuss how computer networks can be classified. **8 marks**
- (b) With relevant examples discuss the various types of network media that are available for connectivity. **10 marks**
- (c) Network Provisioning involves Planning and Design. Briefly write short notes on the following :
- (i) Provisioning **2marks**
- (ii) Network Planning Requirements **4marks**
- (iii) Network Design Goals **4marks**

SECTION B: EACH QUESTION HAS A TOTAL OF 20 MARKS. ANSWER ANY TWO.

- Q2. (i) What is a disaster? Discuss how you can carry out disaster recovery Planning. **10 marks**
- Q3. (a) Explain how scalability and fault tolerance are managed in a computer network **10 marks**
- (b) Define and briefly explain the importance of following in computer networks
- Chat room.**
- VOIP**
- Q4. (a) Briefly explain how IP Over Avian carrier came into being. **10 marks**
10 marks

(b) What do you understand by the term Website? Discuss the characteristics of websites. **10 marks**

Q5. (a) Explain the difference between the following.

(i) Transparent Bridging versus Source Routing Bridging **5marks**

(ii) Brouter versus Router. **5marks**

(b) Discuss the System Development Life Cycle for developing a Computer Network.

10 marks