MASENO UNIVERSITY

UNIVERSITY EXAMINATIONS 2013/2014

FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND TECHNOLOGY

(CITY CAMPUS)

CIT 105: INTRODUCTION TO INTERNET AND INTERNET TECHNOLOGIES

Date: 26ᵗʰ *November, 2013*   *Time:* 5.30 – 7.30pm

INSTRUCTIONS:

- Answer QUESTION ONE and any other TWO questions.

Question One

(a) Provide reasons for Internet growth in recent years. (10 marks)

(b) List ten industries that depend on computer networking. (10 Marks)

(c) Describe the following terms:

    i. E-mail

    ii. Telnet

    iii. FTP

    iv. WWW

    v. HTTP. (10 Marks)

Question Two

(a) What is packet-switching, and why is packet switching relevant to the Internet? (8Marks)

(b) Provide a brief history of the Internet describing when and how it was started. (12 Marks)

Question Three

(a) What is a communication protocol? Conceptually, what two aspects of communication does a protocol specify? (12 Marks)

(b) State the different Internet services provided by the internet. (8 Marks)

Question Four

(a) Describe the TCP/IP layering model, and explain how it was derived. (6 Marks)

(b) List the layers in the TCP/IP model, and give a brief explanation of each. (14 Marks)

Question Five

(a) Discuss different network technologies and concepts. (10 Marks)

(b) Explain the network devices. (10 Marks)