JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEM

BUSIA LEARNING CENTRE

COURSE SCS -306: INTERNET COMPUTING
END SEMESTER EXAMS-DECEMBER 2013

INSTRUCTIONS:

1. This paper contains five (5) questions.

2. Question ONE is Compulsory and any other TWO questions

3. Answer the questions on the booklet provided

4. Mobile phones are not allowed in the exams room

QUESTION ONE 30 MARKS

A) . Define the Internet and describe alternative ways of accessing the internet   (10 marks)

(b) What is internet II, how does it differ from the first generation internet?   (5marks)

C) list and describe alternative ways of locating information on the internet   (5marks)

(d).Explain the following terminologies   (5mark)

- WWW.
- Search engine
- Browser
- Router
- E-mail

e) Describe how the internet works and identify its major capabilities   (5marks)

QUESTION TWO 20 MARKS

(a) What is intrusion detection? List the main intrusion detection functions.   (8 Marks)

(b) Define a security system and briefly explain the main security goals.   (8 Marks)

(c) List four examples of sources of threats to system security.   (4 Marks)

QUESTION THREE 20 MARKS

(a) Briefly describes the types of internet routing algorithms   (4marks)

B)   Describe security threats in computer systems.   (6 Marks)

   (b) Write short notes on the following routing protocols   (10 marks)

- Open short path first
- Router information protocol
- Distance vector routing protocol
- Link state routing protocol
- Border gateway protocol

QUESTION FOUR 20 MARKS

   A) Describe the organizational benefits of internet and web technology   (6marks)

   B) What are computer networks? give examples   (4 marks)

   C) The supervisor in your department has approached you to give your expert opinion   between implementing a ring or star network topology. What would be your advise and why (10 marks)

QUESTION FIVE 20 MARKS

.Describe in details the following internet programming languages and write a simple code of each (20 marks)

a.   HTML

b.   XML

c.   JavaScript

d.   Perl