JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

BACHELOR OF SCIENCE IN COMPUTER FORENSINCS AND AUDIT

COURSE CODE: IIT 3113:

COURSE TITLE: COMPUTER SECURITY AND PRIVACY

Duration 2hrs

INSTRUCTIONS

This paper contains FIVE questions

Answer question one (compulsory) and ANY other two questions

Answer the questions on the booklet provided

Question 1 30marks

a) Highlight the basic concepts of Computer security and privacy **(10 marks)**

b) Explain the concept of computer insecurity   **(10 marks)**

c) Outline various categories of attacks that can make a computer system vulnerable

(10marks)

Question 2 20marks

a) Discus three process that can be initiated to secure the computer system

(5marks)

b) Explain the basic properties of a computer Network   **(5marks)**

c) What role do firewalls and Antivirus software play on security of computer systems

(10marks)

Question 3 20marks

a) Describe any two wired technologies used in Networks   **(10 marks)**

b) Outline any Five communication protocols   **(10 marks)**

Question 4 20marks

a) Discuss any two type of Networks you know   **(5 marks)**

b) Explain any two authentication techniques   **(5 marks)**

c) Discus any three examples of Cryptography   **(10 marks)**

Question 5 20marks

a) Describe five ways that you can detect and remove malware **(10 marks)**

b) Highlight any five best computer security practices   **(10 marks)**