NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF COMMUNICATION AND INFORMATION SCIENCE

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

BACHELOR OF SCIENCE HONOURS DEGREE IN LIBRARY AND INFORMATION SCIENCE

DESIGN AND REALISATION OF INTERNET INFORMATION

ILI 2205

Second Semester Examination Paper

May 2016

This examination paper consists of 2 pages

Time Allowed: 3 hours

Total Marks: 100

Special Requirements: None

Examiner's Name: Mr. E.Mupaikwa

INSTRUCTIONS

1. Answer any four (4) questions
2. Give equal time to all questions you choose
3. Each question carries 25 marks
4. Importance is attached to accuracy, clarity of expression and legible handwriting

MARK ALLOCATION

QUESTION	MARKS
1.	**25**
2.	**25**
3.	**25**
4.	**25**
5.	**25**
6.	**25**

1. Examine the role of the Internet in supporting academic libraries and scholarly research.

[25 marks]

2.1 Discuss with examples, the operation of the following encryption methods:

2.1.1   Private key encryption   [7 marks]

2.1.2   Public key encryption.   [8 marks]

2.2. Discuss the different types of attacks that can be prevented by cryptosystems. [10 marks]

3.1 Write a JavaScript code to list multiples of three (3) that are less than 100 in descending order.   [10 marks]

3.2 Outline characteristics of a good web site.   [15 marks]

4   Examine the TCP/IP architecture indicating the associated protocols.   [25 marks]

5.   Discuss the following network configurations;
5.1.Clinet-server   [10 marks]

5.2 Peer-to-peer   [15 marks]

6.   Compare and contrast open and closed security systems in a network environment.

[25 marks]