NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF COMMUNICATION AND INFORMATION SCIENCE

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

MASTER OF SCIENCE DEGREE IN LIBRARY AND INFORMATION SCIENCE

ADVANCED INFORMATION TECHNOLOGY APPLICATIONS

ILI 5101

First Semester Examination Paper

November 2016

This examination paper consists of 2 pages

Time Allowed:	3 hours
Total Marks:	100
Special Requirements:	None
Examiner's Name:	Mrs A.R. Nyaku

INSTRUCTIONS

1. Answer any <u>four</u> (4) questions.
2. Give equal time to all questions you choose.
3. Each question carries 25 marks.
4. Importance is attached to clear presentation of ideas, good expression and legibility of handwriting.

MARK ALLOCATION

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

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1.1 Discuss with justification the issues to be addressed by a complaints handling policy of a digital library information Centre. [10 marks]

1.2 Analyse the use of any five methods of reaching electronic audience. [15 marks]

2 You are tasked with a project to upgrade an academic library, suggest and justify issues you would take into consideration regarding purchase and upgrade of the following

2.1 Software [5 marks]
2.2 Laptops [5 marks]
2.3 Network devices [5 marks]
2.4 Desktop computers [5 marks]
2.5 Printers [5 marks]

3.1 Discuss how cryptology and cryptoanalysis has impacted on security of library information centres. [12 marks]

3.2 Evaluate any other security issues that affect library information centres. [13 marks]

4. Analyse the move by any three service providers of your choice to provide reliable internet connection in Zimbabwe. [25 marks]

5. Assess the network devices and protocols for each of the following layers of the OSI reference model
5.1 Application layer [7 marks]
5.2 Transport layer [6marks]
5.3 Data link layer [6 marks]
5.4 Physical layer [6 marks]

6.1 Assess the barriers to the adoption of Electronic Data Interchange (EDI) by Information Centre in Zimbabwe, how would you as an Information professional overcome the barriers you discussed. [10 marks]

6.2 Within the context of library information centres evaluate the 7 principles Supply Chain Management. [15 marks]

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