NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF COMMUNICATION AND INFORMATION SCIENCE

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

BACHELOR OF SCIENCE DEGREE IN LIBRARY AND INFORMATION SCIENCE

DIGITAL LIBRARIES

ILI 2210

Second Semester Examination Paper

MAY 2017

This examination paper consists of 3 pages

Time Allowed:	**3 hours**
Total Marks:	**100**
Special Requirements:	**None**
Examiner's name:	**Mr. Nelson Guvava**

INSTRUCTIONS

1. Answer any <u>four</u> (4) questions.
2. Give equal time to each question.
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

ILI 2210

1. Assess the view that digital libraries solve most challenges of poor access to scholarly information in developing countries [25 marks]

2.1 Describe the following components of digital libraries using examples:
2.1.1   User interfaces   [3 marks]
2.1.2   Repository   [3 marks]
2.1.2   Handle system   [3 marks]
2.1.3   Search system   [3 marks]

2.2   With examples, explain the following Digital Library System's four layers
2.2.1   A Database Management System (DBMS)   [4 marks]
2.2.2   Digital Objects Server   [3 marks]
2.2.3   Digital Library Middleware   [3 marks]
2.2.4   Digital Library Clients   [3 marks]

3   Examine the fundamental principles or criteria used in digital library design. [25 marks]

4.1 Describe the three inherent features of digital objects that lay the foundations of the need for metadata. [6 marks]

4.2 Evaluate the different types of metadata and their importance in digital libraries.
                                                                                      [19 marks]

5. Using the summary of most often used Digital library evaluation criteria; draft a plan that you would use to evaluate a digital library of your choice. Take into consideration the following:

5.1 **Usefulness**-content, process, format, overall assessment
5.2 **System features**-technology performance, process or algorithm performance and overall system.
5.3 **Usage**
5.4 **Ethnographic and other criteria**   [25 marks]

6. Appraise the constantly changing nature of digital environments and their implications for library and information science professionals. [25 marks]