

**NATIONAL UNIVERSITY OF LESOTHO
FACULTY OF HUMANITIES**

**LIBRARY AND INFORMATION STUDIES
COMMUNICATION AND STUDY SKILLS**

**LIS 4303: ICT APPLICATION TO LIBRARY AND INFORMATION
SERVICES**

FINAL EXAMINATION

January 2023

Marks: 100

Time: 3 Hours

Instructions

1. This is a *closed book* examination.
 2. **Section A is compulsory.**
 3. Choose **ANY 3** questions in Section B (questions 3 to 6).
 4. Each question carries 20 marks.
 5. Each question **MUST** begin on a new page.
 6. Clearly write your student number on your answer sheet.
-

Question 1

- (a) Define a computer. **(2)**
- (b) Explain the purpose of each the following devices in a computer and give one example for each.
 - i. Input device. **(3)**
 - ii. Processing device. **(3)**
 - iii. Output device. **(3)**
 - iv. Storage device. **(3)**
- (c) Explain why a smartphone should be classified as a computer. **(6)**

[20]**Question 2**

- (a) Assume your library should automate its house-keeping operations and services. Outline and explain the steps you would follow for your library automation process. **(12)**
- (b) There two types of software that can be used.
 - i. Which type would you recommend for your integrated library system? **(1)**
 - ii. Justify your choice from (b)i above. **(7)**

[20]

SECTION B CHOOSE ANY *THREE* (3) QUESTIONS [60 MARKS]

Question 3

- (a) Define the following terms:
- i. Library automation. (2)
 - ii. Information system. (2)
 - iii. Automated library system (ALS). (2)
 - iv. Integrated library system (ILS). (2)
 - v. Information and Communication Technology (ICT). (2)
- (b) Define the following standards and explain why they are necessary for the automated library system and resource sharing:
- i. MARC. (5)
 - ii. Z39.50. (5)

[20]

Question 4

- (a) Describe any four advantages of using integrated library system. (4)
- (b) Explain any three differences between the automated library system and the digital library system. (6)
- (c) Describe any five ethical issues to consider while applying ICT in libraries. (10)

[20]

Question 5

- (a) Choose any two emerging technologies you are familiar with and explain how each technology can be used by the libraries to improve their operations and services. (12)
- (b) Based on your choices from 5(a), explain 4 challenges of applying each technology to the library and information services. (8)

[20]

Question 6

- (a) Explain in detail any four types of ICT skills/competencies that information professionals are expected to have in the 21st century to be able carry out their operations effectively. (12)
- (b) Explain the difference between application software and system software and give two examples for each. (8)

[20]