NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF APPLIED SCIENCES

DEPARTMENT OF INFORMATICS AND ANALYTICS

Policy Informatics I SCI4103

First Semester Examination 2024

This examination paper consists of 3 pages

Time Allowed: 3 hours

Total Marks: 100

Examiner's Name: Mrs. M. Dzinomwa

External Examiner's Name: Dr L. C. Sakala

INSTRUCTIONS

1. Answer any four (4) questions
2. Each question carries 25 marks

MARK ALLOCATION

QUESTION	MARKS
1.	25
2.	25
3.	25
4.	25
5.	25
POSSIBLE TOTAL MARKS	100

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Question One

a) Explain the steps involved in creating a new policy, provide real-world examples, and discuss potential problems that might arise when implementing these policies.   [25]

Question Two

a) Describe the relationship between governance and policies with reference to cities in Zimbabwe.   [10]

b) Explain the importance of passwords in securing institutional data and systems, referencing at least three principles highlighted in the NUST ICT Acceptable Use Policy.   [10]

c) Discuss the relationship between economies and policies with reference to cities in Zimbabwe.   [5]

Question Three

The development and implementation of ICT international policies require collaboration among governments, international organizations, and the private sector.

a) Describe the specific roles played by each of the following stakeholders in shaping ICT international policy:

i) Governments

ii) International organizations

iii) The private sector   [15]

b) Using an example of an international ICT initiative or agreement (e.g., the World Summit on the Information Society, Internet Governance Forum, or ITU standards), analyse how these stakeholders collaborated to achieve its goals.   [10]

Question Four

a) Evaluate the effectiveness of digital literacy programs in promoting access to ICTs for all citizens.   [10]

b) Discuss the challenges and opportunities of using ICTs to promote democracy and human rights.   [10]

c) Describe how ICTs promote sustainable development; discuss how this could be achieved.   [5]

Question Five

Cybersecurity is one of the greatest challenges that current governments encounter.
    a) Discuss the key components of the Zimbabwean government's cybersecurity Act. [15]
    b) What are the sources of emerging cybersecurity threats? [10]

--END OF PAPER---

SCI4103