

**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**

**STAGE II SECOND SEMESTER MAY 2010 EXAMINATIONS**

**ILI 5108: SPECIALISED INFORMATION SYSTEMS IN AGRICULTURE, HEALTH  
AND DEVELOPMENT STUDIES**

**TIME: 3 HOURS + 30 MINUTES READING TIME**

**INSTRUCTION TO CANDIDATES**

1. Answer any four (4) questions.
  2. Each question carries 25 marks.
  3. Give equal time to all questions.
  4. Importance is attached to accuracy, clarity and legible handwriting.
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1. “The exponential growth of the information flow in Development Studies has been exacerbated a plethora of information systems.” Discuss how you would remedy this problem when designing an Information System for sustainable development in Zimbabwe.
2. Evaluate any medical information system you are familiar with. Provide relevant examples in your evaluation.
3. You are tasked to design a National Agricultural Information System (NAIS) for Zimbabwe. Discuss how you would go about the task with the aid of a specific model to evaluate the current situation.
- 4i. Discuss the five (5) processes of a web-based Information model. (15 marks)
- 4ii. Explain how you could use the model you discussed in 4i above to increase agricultural productivity in an area of your choice in Zimbabwe. (10 marks)
5. It has been argued that health information systems are idiosyncratic to the countries that develop them and that no appropriate model exists that can be applied to all countries. Discuss.
6. Explain how the following Geographical Information Systems (GIS) paraphernalia could have been used to reduce the incidence of cholera in Zimbabwe.
  - i. Extrapolation (5 marks)
  - ii. Overlay analysis (5 marks)
  - iii. Query (5 marks)
  - iv. Buffer analysis (5 marks)
  - v. Statistical analysis (5 marks)

**END**