

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 FIRST SEMESTER JANUARY 2013 SUPPLEMENTARY
EXAMINATIONS**

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

TIME: 3 HOURS

Instructions to candidates

1. Answer any four (4) questions.
 2. Each question carries 25 marks.
 3. Importance is attached to accuracy, clarity of expression and legibility of handwriting.
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1. Assess the potential use of the following technologies in promoting access to agricultural research.
 - 1.1 Podcasting [5 marks]
 - 1.2 Tagging [5 marks]
 - 1.3 Mobile phones [5 marks]
 - 1.4 Wikis [5 marks]
 - 1.5 Blogs [5 marks]
2. Discuss the role of information systems in addressing the problem of environmental degradation in rural areas. [25 Marks]
3. Assess the potential use and contribution of the following Geographic Information System tools and applications in biomedical research.
 - 3.1 Remote sensing [5 Marks]
 - 3.2 Airborne lidar [5 Marks]
 - 3.3 Buffer analysis [5 Marks]
 - 3.4 Network analysis [5 Marks]
 - 3.5 Layering [5 Marks]
4. Explain how one can use the systems approach to design a specialised system for policy makers in Zimbabwean government. [25 Marks]
5. Discuss the importance of computerised information systems in promoting economic development in Zimbabwe. [25 Marks]
- 6.1 Describe the National Health Information System of Zimbabwe. [7 Marks]

6.2 Discuss the challenges associated with the information flow within the system referred to in 6.1 above. [8 Marks]

6.3 Explain how the challenges highlighted above may be solved. [10 Marks]

END OF PAPER