

**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**FACULTY OF COMMUNICATION AND INFORMATION SCIENCE**  
**DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE**  
**BACHELOR OF SCIENCE (HONOURS) DEGREE IN LIBRARY**  
**AND INFORMATION SCIENCE**

**PART II SECOND SEMESTER JULY 2012 SUPPLEMENTARY EXAMINATIONS**

**ILI 2205: DESIGN AND REALISATION OF INTERNET INFORMATION  
IN LIBRARIES AND ARCHIVES**

**TIME: 3 HOURS**

**Instructions to candidates**

1. Answer any four (4) questions.
  2. Each question carries 25 marks.
  3. Give equal time to each question.
  4. Importance is attached to accuracy, clarity and legibility of handwriting.
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1. Discuss how the following factors are addressed when designing websites:
  - 1.1 Background information [5 marks]
  - 1.2 Page layout [5 marks]
  - 1.3 Browser compatibility [5 marks]
  - 1.4 Navigation [5 marks]
  - 1.5 Multimedia [5 marks]
2. Discuss the factors that one should consider when choosing the media for developing a local area network. [25 marks]
3. Critically analyse the Open System Interconnection (OSI) reference model. [25 marks]
4. Describe how web 2.0 tools have altered the design of library websites. [25 marks]
5. Provide a detailed explanation of the functions of the following network hardware devices:
  - 5.1 Network Interface card [5 marks]
  - 5.2 Modem [5 marks]
  - 5.3 Hub [5 marks]
  - 5.4 Router [5 marks]
  - 5.5 Bridge [5 marks]

6.1 With the aid of diagrams, describe the physical configuration of the network at the NUST Campus. [15 marks]

6.2 Highlight the advantages and disadvantages of the network architecture that you described above. [10 marks]

***END OF PAPER***