

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 MAY 2011 EXAMINATIONS

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

TIME: 3 HOURS

Instruction 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. Describe any five (5) Web 2.0 applications and explain how information centres can utilise them. (25 marks)
2. Compare and contrast the TCP/IP and OSI models. (25 marks)
3. You are tasked with designing an intranet for NUST; explain how you would develop the physical and logical configurations. (25 marks)
4. Discuss the following network topologies:
 - 4.1 Bus (5 marks)
 - 4.2 Ring (5 marks)
 - 4.3 Mesh (5 marks)
 - 4.4 Star (5 marks)
 - 4.5 Extended star (5 marks)
5. Explain the functions of each of the following network devices:
 - 5.1 Router (5 marks)
 - 5.2 Switch (5 marks)
 - 5.3 Modem (5 marks)
 - 5.4 Hub (5 marks)
 - 5.5 Bridge (5 marks)
6. Discuss the main factors that affects throughput in Zimbabwean information centres. (25 marks)

END OF PAPER