

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 AUGUST 2010 SUPPLEMENTARY 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 legible handwriting.
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1. Discuss, giving concrete examples, the benefits of an Intranet to an organisation.
2. Critically evaluate the differences between physical and logical topologies.
3. Discuss the different types of network typologies, showing the topology you consider most appropriate for an academic library OR an archive.
4. Discuss the concepts listed below:
 - i. File transfer (5 marks)
 - ii. Listserv (5 marks)
 - iii. Usenet (5 marks)
 - iv. Telnet (5 marks)
 - v. URL (5 marks)
5. Discuss the meaning of the following terms in networking.
 - i. Broadband transmission (5 marks)
 - ii. Baseband transmission (5 marks)
 - iii. Circuit switching (5 marks)
 - iv. Message switching (5 marks)
 - v. Packet switching (5 marks)
6. Discuss the functions of each of the layers of the OSI model listed below:
 - i. Application (5 marks)
 - ii. Session (5 marks)
 - iii. Transport (5 marks)
 - iv. Network (5 marks)
 - v. Data link (5 marks)

END