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 2012 EXAMINATIONS

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

TIME: 3 HOURS

Instruction to candidates
1. Answer any <u>four</u> (4) questions.
2. Each question carries <u>25 marks.</u>
3. Give equal time to each question.
4. Importance is attached to accuracy, clarity and legibility of handwriting.

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1. Discuss the fundamental design issues that should be considered when designing a website for a special library.   [25 marks]

2. Critically evaluate any five methods of connecting libraries to the Internet.   [25 marks]

3.1 Discuss the pros and cons of the broadband and baseband data transmission techniques
                                                                            [10 Marks]

3.2 Describe the following link switching techniques:

3.2.1 Circuit switching   [5 Marks]
3.2.2 Message switching   [5 Marks]
3.2.3 Packet switching   [5 Marks]

4. Critically discuss the impact of open source software packages and web 2.0 tools on university websites.

5.1 Discuss the main functions of a web browser   [10 Marks]

5.2 Describe the processes and procedures that are taken by a web browser when one follows a link.   [15 Marks]

6. Describe the following characteristic features of the Internet:

6.1 IP Addresses	[5 marks]
6.2 Domain Names	[5 Marks]
6.3 Ports	[5 Marks]
6.4Protocols	[5 Marks]
6.5Name Servers	[5 Marks]

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