# NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

#### FACULTY OF COMMUNICATION AND INFORMATION SCIENCE DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

# MSC IN LIBRARY AND INFORMATION SCIENCE

### STAGE I FIRST SEMESTER OCTOBER 2005 SUPPLEMENTARY EXAMINATIONS

ILI 5101 ADVANCED INFORMATION TECHNOLOGY APPLICATIONS

#### TIME: 3 HOURS + 30 MIN READING

# INSTRUCTIONS TO CANDIDATES

- 1. THE QUESTION PAPER CONTAINS SIX QUESTIONS.
- 2. ANSWER ANY **FOUR** QUESTIONS.
- 3. EACH QUESTION CARRIES 25 MARKS.
- 1. By first defining security explain the following:
  - (a) Aims and objectives of data/information security
  - (b) Security controls
  - (c) Threats to hardware, software and data [25 marks]
- 2 When developing a website it is important to create a good interface, develop a website using tools that are compatible with most web browsers. etc.

Describe the main architectural features of a well developed website.

[25 marks]

4. Explain what the following codes do giving details to each and every statement of the code. [25 marks]

statement of the code. <html> <head> <title> Supplementary </title> </head> \$ db = mysql - connect ("localhost", "root") mysql - select - db("mydb", \$db); \$ result = mysql - querry(" SELECT \* FROM student", \$db); echo " \n";

echo "Nmae td> Position \n";

while (\$myrow = mysql - fetch - row (\$result))

4	{ Print f t ("   % s % s   %s \n", \$myrow[1], \$myrow[2],			
	\$myrow[3];			
-	} echo "\n" ;			
	?> <th>,</th> <th></th> <th></th>	,		
4.	(a)	Expla oper	in how Transmission Control Protocol Connection ates	Establishment [15 marks]
	(b) By first defining what a domain name is, give three examples of the following stating their importance on the Internet			
		(i) (ii) (iii)	Generic Top Level Domain Country code Top Level Domain (cc TLD) Proposed TLD	[10 marks]
(	You are requested by your organization to present a paper on methods, tools and techniques used for accessing information on the internet. Prepare a detailed outline of the paper you are going to present to the organization. [25 marks]			
	Descr (DBM: (ii) (iii) (iv) (v) (v) [vi)	S). Data Data Telep Appli Secu	he following components of a Database Man Dictionary Languages processing monitor ication Development rity Software iving and recovery system	agement Systems [3 marks] [6 marks] [3 marks] [2 marks] [6 marks] [5 marks]
			END OF PAPER	