NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY **FACULTY OF APPLIED SCIENCE**

COMPUTER SCIENCE DEPARTMENT **DECEMBER EXAMINATIONS 2004**

OBJECT ORIENTED PROGRAMMING AND APPLICATIONS SUBJECT:

CODE: SCS6101

INSTRUCTION TO CANDIDATES

Answer any five questions. Total marks 100

Time: 3 hours

QUESTION ONE

a) How does a world-wide-web server work?

b) What is the purpose of a client-side scripting language such as Javascript?

[5] c) What is the purpose of a server-side scripting language such as Active Server Pages VB Script?

[5] d) What factors should be considered when choosing a server-side scripting language or CGI language. [5]

QUESTION TW'O

Write an HTML script to display the following table:

Student_ID	Name	Programme	Part
N0001234X	Kofi Annan	Computer Science	3
N0034837J	Hans Blix	Chemical Engineering	4

[20]

QUESTION THREE

Write an Active Server Page application to access data stored in a SQL database table. The SQL server database should make use of a DSN called Staff, a database called Personnel and a table called Employee. The following fields should be included in the table: ID [int], Firstname [nvarchar], Lastname [nvarchar], DateofBirth [DateTime].

[20]

QUESTION FOUR

Write an SQL stored procedure to insert a record into a database. This stored procedure should accept parameters corresponding to the following fields in a database table called Employee: Name, Lastname, Gender, DateOfBirth, Salary.

QUESTION FIVE

- a) QUESTION FIVE What is the difference between an absolute URL and a [4] relative URL? [4] b) What is the eXtensible Markup Language? [4] c) Compare and contrast XML and HTML.
- d) Explain the basic mechanism of a Web application connected to a database server. Include the manner in which data is accessed and transported. [8]

QUESTION SIX

List and describe the server-side objects that are available in the scripting object [20] model for Active Server Pages.

QUESTION SEVEN

- a) Define an object, as the term is used in Object-Oriented programming.
- b) Define the term inheritance, and explain how this concept is used in designing an object oriented program.
- [4] c) What is a property or instance variable? [3]
- d) What is a method? [3] e) What is a message?

END OF QUESTION PAPER

GOOD FACK!

[4]

[6]