# NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY FACULTY OF APPLIED SCIENCE

# COMPUTER SCIENCE DEPARTMENT DECEMBER EXAMINATIONS 2005

SUBJECT: OBJECT-ORIENTED PROGRAMMING AND APPLICATIONS

CODE: SCS6101

### **INSTRUCTION TO CANDIDATES**

Answer any five questions.

Time: 3 hours

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#### **QUESTION ONE**

a)	Outline design considerations for forms	[8]
b)	What is the difference between post and get methods?	[4]
c)	How does a check box differ from a radio button	
-,	i) Functionally	[1]
	ii) Implementationally	[2]

d) PHP uses a blend of interpretation and compilation in order to provide the best mix of performance and flexibility to programmers. Explain this statement [5]

### **QUESTION TWO**

a) Outline the installation of php onto an apache web server [10]

b) Assume that in a web page a user can enter a word into a text box (with the name attribute = word) and the web page allows for the generation of another string which is the given string in reverse. Without using php's inbuilt functions write the script that will perform this string manipulation and send a web page back to the client browser with a statement that reads for example "hello reversed is olleh" [10]

## QUESTION THREE

a)	Desribe the \$_REQUEST autoglobal	[3]
b)	How does cal differ from active server pages?	[5]
c)	If your computer does not have IIS outline how you would in:	stall it 🤊
c,	21 / 22 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	[5]
d)	What is the difference between a monitor and server in mysq	l? [4]
e)	What do you understand by the term PEAR with regards to ex	ktending
C)	php?	[3]
	, ,	

### **QUESTION FOUR**

If you want to use php in your company and your manager favours another solution, or if you are trying to convince a potential client that php is really a solution, or if you are trying to convince a potential client triat prip is really a superior choice for the web, you are going to need to have a clear-cut set of reasons why you believe php is the superior language. Outline the selling points of php that you would use to justify your choice of php

[20]

QUESTION FIVE							
a)	i) ii) iii)	r P	ain the following php functions with as much detail: nysql_connect ohpinfo nysql_select_db	[4] [4] [2]			
b)		i) ii)	How does xml differ from html functionally? Give a detailed example of how it can be used in web applic	[2] ations [2]			
c)			at do you understand by the term multimedia? Give examples v ards to web pages	vith [3]			
d)		Nan	ne a unique IDE that can be used with the following: asp, php and	and [3]			

### QUESTION SIX (9) 4 1 2 1 3 1 2 4 1 4

- a) Explain the following code:
- i) Hi <?php echo \$\_POST['name']; ?>. You are <?php echo \$\_POST['age']; ?> years old.

[4]

- ii) <?php
   if (strpos(\$\_SERVER['HTTP\_USER\_AGENT'], 'MSIE') !== FALSE) {
   ?>
   <h3>strpos() must have returned non-false</h3>
   You are using Internet Explorer
   <?php
   } else {
   ?>
   <h3>strpos() must have returned false</h3>
- c) i) What is a cookie and what are its attributes?

You are not using Internet Explorer

[5]

[4]

- ii) Are there any security risks associated with cookies? Explain [3]
- iii) What is the difference between cookies and sessions?

[4]

**END OF QUESTION PAPER**