

**AFRICA
UNIVERSITY**

(A United Methodist-Related Institution)

College of Business, Peace, Leadership and Governance

COURSE TITLE: CIS206 INTERNET APPLICATION DEVELOPMENT

SEMESTER 1: FINAL EXAMINATION

LECTURER: Mukhalela B.U

TIME: 3 HOURS

Answer any Five (5) Questions.

Total possible mark is **100**.

Start **each** question on a new page in your answer booklet.

The marks allocated to **each** question are shown at the end of the section.

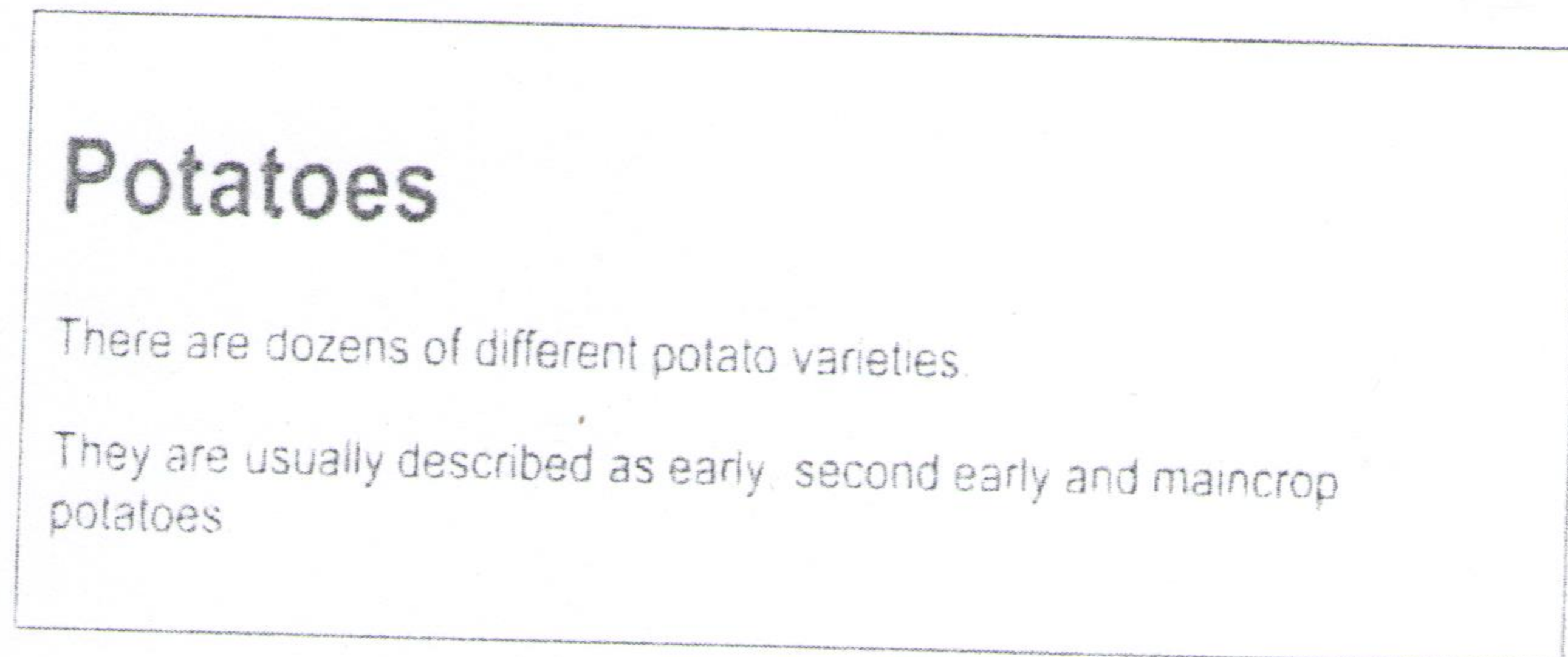
QUESTION 1

- a) Write the full meanings of the following abbreviations as used in Internet Application Development (IAD); [5]
- i) XML
 - ii) Html
 - iii) Http
 - iv) AJAX
 - v) PhP
- b) Using a sketch diagram, identify all the layers of the 3-Tier architecture as it applies to IAD, give examples of technologies usable at each layer. [15]

QUESTION 2

- a) A senior Internet Application Developer was quoted saying, ' When developing IA, it is crucial that you place your CSS rules in one separate script, since this has many merits. Furthermore CSS brings the much needed consistency'. Now answer the following questions that your peer asked you after hearing this.

- i) Briefly explain the advantages of writing CSS rules in a separate script when developing Internet Applications. [3]
- ii) Urge briefly why the speaker said CSS brings consistency onto Internet Applications. [2]
- iii) Show the general syntax for CSS selector(s) and declarations. [5]
- iv) Identify the three ways of adding CSS rules to an Internet Application [3]
- v) Write CSS and Html code snippets that will show the output below;



[7]

QUESTION 3

- a) Differentiate 'Server Scripting' from 'Browser Scripting' and give examples of technologies used in each scenario. [8]
- b) Write brief notes on why images are important on Internet Applications and note any precautions which a developer should guard against when working with images on an Internet Application. [4]
- c) Using html code snippet show how one can include both a relative and absolute link via an image. [4]
- d) Using html code snippet, differentiate ordered and unordered list. [4]

QUESTION 4

- a) You were asked to modify an existing Internet Application for a Retail shop that sells Laptops and you want it to reflect the following result below, write necessary code snippet that will produce it.[5]

Laptop computer:

~~Was \$995~~

Now only \$375

b) Use java scripts to write a program to prompt users of a Money lending web site to enter their last two instalments paid and the page should say out the total for the two last repayments. The resultant page should echo a message saying like, “Your total for the last two loan repayments was: \$450-00” [5]

c) Reproduce the following table below that you intend to include on an Internet Application. [10]

	ABC	BBC	CNN
6pm - 7pm	Movie	Comedy	News
7pm - 8pm		Sport	Current Affairs

QUESTION 5

- Identify the basic four variables which you should declare in a php script that you intend to use for sending data to a database. Use code snippets. [4]
- Write a php code snippet for connecting to a database using function mysql_connect. [4]
- Briefly explain how the following functions are used in php and show how they are used via code snippets;
 - Mysql_query [3]
 - Mysql_close [3]
 - Mysql_select_db [3]
- Briefly explain web defacing. [2]

QUESTION 6

- Given the form shown below, write html code that will produce the form below;

VOTE FOR YOUR FAVORITE JAZZ MUSICIAN OF ALL TIME

Username: Ivy

I vote for: Ella Fitzgerald
Herbie Hancock
John Coltrane
Miles Davis
Thelonius Monk

SUBMIT

[10]

b) You were told that the above form will use method 'GET' when sending the contents of the form to the server, explain more about the use of GET versus 'POST' on forms.

[5]

c) Write code snippets for showing the following;

i) 2 Radio button

ii) 2 check boxes

[5]

End of Examination