

PAN AFRICA CHRISTIAN UNIVERSITY

DIPLOMA IN INFORMATION AND COMMUNICATION TECHNOLOGY

END OF SEMESTER EXAMINATION

DEPARTMENT: COMPUTING AND INFORMATION TECHNOLOGY

COURSE CODE: DICT0121

COURSE TITLE: INTERNET APPLICATION DEVELOPMENT

EXAM DATE: TUESDAY, XXXXX, APRIL, 2023

TIME: 2:00PM- 5:00PM

INSTRUCTIONS

- This exam script has **TWO (2)** sections.
- Read all questions carefully before attempting.
- Answer All questions in Section **A** and any other Three questions in Section **B**.
- Write only your **student number** on the answer booklet provided.

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SECTION A

(Answer ALL questions in this section)

Question 1:

a) Write HTML tags that will make and output the following:

i. The largest level of heading **[1 Mark]**

ii. Inserting a line break **[1 Mark]**

iii. Text show in bold **[1 Mark]**

b) Explain the meaning of the term "empty elements" in HTML. **[2 Marks]**

c) State the purpose of web browser in web application development. **[1 Mark]**

d) The following table was created using HTML.

Describe the attributes that have been used to modify the table so as to appear as shown in (i) and (ii) below. **[4 Marks]**

(i)

(ii)

SECTION B

(Answer any THREE (3) questions in this section)

Question 2:

a) State the type of domain presented by the following extensions: **[4 Marks]**

i) .gov

ii) .mil

iii) .com

iv) .org

b) Outline the function of each of the following tags as used in HTML. **[3 Marks]**

i. `<!...>`

ii. `<a>`

iii. `<frameset>`

c) A web developer was required to design a sitemap before developing a website for a client. Explain three reasons for this approach. **[3 Marks]**

Question 3:

a) Categorize each of the following internet based programming languages as server-side or client-side.

i. HTML

ii. PHP

iii. CSS

iv. JavaScript

[2 Marks]

b) Write HTML code to output the user account form below. **[8 Marks]**

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Course taken

Certificate in IT ▼

Gender

- ☒ Male
☐ Female
☐ Other

Choose the units taken this semester

☒ Web Development I ☒ Object oriented Programming ☐ Programming Desktop App

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Question 4:

a) Ann, a web designer, would like to include images on a website she is creating.

- i. List two types of image file formats that she is likely to use. **[2 Marks]**
 ii. Outline two factors that she would consider when placing images on the webpage.

[2 Marks]

b) Tables are just like spreadsheet and they are used very frequently by almost all web developers. Use HTML code to produce the following table: **[6 Marks]**

S/No	Firstname	Second Name	Age
1	David	Kiplamai	21
2	Jane	Njoki	19
3	Julia	Nesser	19

Question 5:

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a) Identify and name the web browsers below.

[4 Marks]



i

ii

iii

iv

b) Using the HTML tags and attributes, produce the list below.

[6 Marks]

Example of unordered list

- Coffee
- Tea
- Coca cola

Examples of ordered list

4. Coffee
5. Tea
6. Coca cola

Question 6:

a) Mr. Mutua an entrepreneur has successfully developed and hosted a website. Explain four actions he must undertake that will increase the number of visitors to the site.

[4 Marks]

b) Write HTML code to divide the window of a browser into frames as shown in the figure below.

[6 Marks]

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