

DIPLOMA IN INFORMATION TECHNOLOGY

DIT 0207: INTRODUCTION TO WEB-BASED PROGRAMMING

INSTRUCTIONS:

Answer **question one** (compulsory) and **any other two** questions.

Question One (Compulsory)

- a) Write an HTML code that will display the following table in a web browser. (8mks)

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- b) Explain the client-server structure of the web. (4marks)
- c) What is the difference between HTML and CSS? (4 marks)
- d) Distinguish between the internet and the world wide web (2 marks)
- e) What is the difference between a span and div tags (2 marks)?
- f) Describe the function of Web Browsers (3 marks)
- g) Write an html code that displays an image with the name Ksu.png, 300px by 400px and a link to YouTube with the following URL: <https://www.youtube.com/> (6 marks)
- h) Write an HTML code that displays a description list. (4mks)

Question Two

- a) Explain in detail two client-side and two server side languages of the web (**12 marks**)
- b) Explain four key principles of good web design (**8 marks**)

Question Three

- a) With examples explain three ways of inserting CSS. (**12mks**)
- b) What are Forms in HTML? Write an HTML code that will display the following form. (8 marks)

HTML form

First name:

Last name:

E-mail:

Male
 Female

Question Four

- a) Explain the Internet model and protocols in each layer and their functions. (10mks)
- b) Write a webpage that will display your personal details on a web browser:

Personal Details (NB: should be largest heading)

Firstname: (Your first name)

Lastname: (Your last name)

Email: <https://www.gmail.com> (link connecting to Gmail.)

Other Details (Should be second largest heading)

County: (Your county)

Gender: (Your gender) (6mks)

- c) Explain what HTML5 is. (4mks)

Question Five

- a) Write HTML codes to generate the following

Fruits

- Banas
- Oranges
- Mangoes
- Apples

Vegetables

- I. Tomatoes
- II. Cabbages
- III. Beans
- IV. Kales (8 marks)

- b) What is the importance of HTML comments in webpages? Write a simple webpage to display a student's personal details on the web browser e.g. full name in italics, registration number in bold, the county, gender, age, a picture and link to Facebook. The title of the webpage should be personal details and should have a first heading (My personal Details) underlined and in blue color. (10mks)

c) What are empty elements? Give two examples. (2 marks)