



PAN AFRICA CHRISTIAN UNIVERSITY

END OF TERM EXAMINATION

DEPARTMENT: COMPUTING & INFORMATION TECHNOLOGY

COURSE CODE: DICT0121

CAMPUS: ROYSAMBU

COURSE TITLE: INTERNET APPLICATION AND WEB DESIGN

EXAM DATE: THURSDAY 19TH APRIL 2018

TIME: 17:30 – 20:30 HRS

INSTRUCTIONS

- This exam script has **TWO (2)** sections.
- Read all questions carefully before attempting.
- Answer All questions in Section **A** and any other Four questions in Section **B**.
- Write only your **student number** on the answer booklet provided.
- None programmable calculators permitted
- Calculators on phones, tablets and computers are NOT permitted in Theory Papers

SECTION A

(Answer ALL questions in this section)

Question 1:

- I. Explain the following terms:
 - a) Internet (2 Marks)
 - b) World Wide Web (2 Marks)
 - c) Email (2 Marks)
 - d) Hyperlink (2 Marks)
 - II. Giving two examples explain what is a web Browser (4 Marks)
 - III. Write out the recommended minimal structure of an HTMLdocument. (8 Marks)
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SECTION B

(Answer any FOUR (4) questions in this section)

Question 2:

- I. Define the following terms as used in internet applications and web design:
 - a) HTML (2 Marks)
 - b) CSS (2 Marks)
 - c) PHP (2 Marks)
- II. Organizations have a need to communicate to stakeholders, many times the communication need of a website is triggered by a new strategic direction. In this view explain eightphases of planning and execution in web design process.
(14 Marks)

Question 3:

- I. Define Javascript and outline two uses in web design. (6 Marks)
- II. Explain the term responsive web design (2 Marks)
- III. Dreamweaver is a great program for building and designing websites visually. Describe the process of designing a simple website in Adobe Dreamweaver
(12 Marks)

Question 4:

- I. Describe the termURL (2 Marks)
- I. The internet support various aspects in ourlife. State six uses of the internet.
(6 Marks)
- II. You were shortlisted for interview as an IT officer in a construction firm, during the interview the manager asked you to give a brief history of internet. Explain how you would answer the question. (12 Marks)

Question 5:

- I. Define the following terms as used in web design
 - a) Hypertext (2 Marks)
 - b) HTTP (2 Marks)
 - c) FTP (2 Marks)
- II. Now that the internet is an integral part of our lives, it's important to be secure online. Discuss internet security. (4 Marks)
- III. The manager of one of the largest shopping malls in Kenya has contacted you to provide a website architecture diagram for a new website. Draw the diagram that will be used in coming up with a new website. (10 Marks)

Question 6:

- I. Describe a Search engine. (2 Marks)
- II. Explain what a Blog is and state three uses of blogs (6 Marks)
- III. A poorly designed website does not create actual, lasting results for a company. State and explain three characteristics of a good website. (12 Marks)

Question 7:

- I. Explain the term Home Page in web design (2 Marks)
- II. The internet was not designed for its current level of usage, and there is need for simple constructs to allow the network to do better. In this view state and explain three expectations of the future. (6 Marks)
- III. Wordpress is a free and open-source content management system (CMS). Describe the process of creating a website with Wordpress. (12 Marks)