061006T4ICT

ICT TECHNICIAN LEVEL 6

IT/OS/ICT/CR/5/6

PERFORM WEBSITE DESIGN

July /August 2024

TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)

WRITTEN ASSESSMENT

TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATES

1. The paper consists of TWO sections; A and B
2. Answer **ALL** the question in section A and any THREE in section B
3. Marks for each question are as indicated in the brackets
4. You are provided with a separate answer booklet to answer the questions
5. Do not write in this question paper

This paper consists of FOUR (4) printed pages

Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.

SECTION A: (40 MARKS)

Answer ALL the questions in this section.

1. A student was learning about website design disciplines and came across the following terminologies. Explain each of the terminology. (6 Marks)
   - a Interaction Design (ID)
   - b User Interface (UI) design
   - c User Experience (UX) design.

2. Julia bought a computer so she could get access to the internet. Other than the computer, outline other FOUR components she needed to accomplish the task. (4 Marks)

3. The Ministry of health has acquired a Website for their own to help them in their operations. Explain TWO uses of the website to ministry. (4 Marks)

4. Explain the purpose of a web browser giving TWO examples of existing web browsers.
   (4 Marks)

5. A URL is an address which allow users and applications to locate resources on the internet. Outline FOUR types of URLs. (4 Marks)

6. Write down a HTML tag to format a heading to blue color with a red background.
   (4 Marks)

7. Website security threats can compromise the confidentiality and integrity of website data. Outline THREE such website threats. (3 Marks)

8. When developing a website, there are several factors to be considered. Explain TWO such factors. (4 Marks)

9. Website design and website development are website aspects used while creating and maintaining a website. Distinguish between website design and website development.
   (4 Marks)

10. Jane wanted to design a website and decided she would use a web authoring tool available in the market. Outline THREE reasons for her choice. (3 Marks)

SECTION B: (60 MARKS)

Attempt any THREE questions in this section

11. a. The process of web design can be thought of as a three-stage process, (1) Research, (2) Design and (3) Implementation.

    i.   State TWO actions involved in each of the stages listed above. (6 Marks)

    ii.   In the above processes, where does testing and evaluation fit? (1 Marks)

  b. Building a website that is easier to maintain is a good website development practice. Explain TWO methods on how to achieve this practice. (4 Marks)

  c. You are tasked to create a website for a computing club in your institution. Using HTML tags illustrate THREE ways you can apply color property to an element on a webpage. (6 Marks)

  d. Scripting languages are used to add dynamic and interactive features to a webpage. Outline THREE such languages. (3 Marks)

12. a. A page layout is the arrangement of website content and navigation menus within a webpage used to create an appealing user friendly webpage. Discuss THREE types of webpage layout. (9 Marks)

  b. Write CSS style to apply the following properties. (4 Marks)

    i.   Apply color red to all elements with class "textcolor".

    ii.   Apply a shadow to all heading elements.

  c. Use an example to illustrate the purpose of universal selector. (4 Marks)

  d. Outline THREE types of domains used in website hosting. (3 Marks)

13. a. A company in Nairobi decided to plan for a website maintenance. As an IT Technician discuss FOUR importance that the company would realize from conducting this pre-planned maintenance. (12 Marks)

  b. John wanted to use a form to capture name and email information into a database. Write a PHP code that he will use to perform the task. (8 Marks)

14. a. An institution you are working for has decided to purchase a website. As an IT technician you have been mandated to come up with a plan of on how the website will be hosted. Discuss the website hosting process. (10 Marks)

  b. During research phase in the website development, website requirements are identified. Differentiate between business requirements and user requirements. (4 Marks)

c. Website legal requirements ensures compliance with laws and regulations through legal documents. Explain THREE such documents found on a website. (6 Marks)

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