



ALUPE UNIVERSITY
COLLEGE

... Bastion of Knowledge ...

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OFFICE OF THE DEPUTY PRINCIPAL
ACADEMICS, STUDENT AFFAIRS AND RESEARCH

UNIVERSITY EXAMINATIONS

2021 /2022 ACADEMIC YEAR

FOURTH YEAR FIRST SEMESTER REGULAR EXAMINATION

**FOR THE DEGREE OF BACHELOR OF
COMPUTER SCIENCE**

COURSE CODE: COM 432

**COURSE TITLE: DESIGN TECHNIQUES FOR THE
WEBSITE**

DATE: 2ND FEBRUARY, 2022 TIME: 0900 – 1200 HRS

INSTRUCTION TO CANDIDATES

- SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

REGULAR EXAM

COM 432: DESIGN TECHNIQUES FOR THE WEBSITE

STREAM: COM

DURATION: 3 Hours

INSTRUCTION TO CANDIDATES

Answer **ALL** questions from section A and any **THREE** from section B.

SECTION A [24 MARKS] ANSWER ALL QUESTIONS.

QUESTION ONE [12 MARKS]

- a) (i) Write down an example of the Cascading Style Sheet (CSS) rule (2 Marks)
- (ii) Explain color in Typography. (2 Marks)
- b) (i) Explain the importance of Rollovers in a Web page design. (2 Marks)
- (ii) Write a code that defines a rectangular area (9,372,66,397). When a user clicks anywhere inside this area, they are taken to the Kibabii University College Website home page. (2 Marks)
- c) (i) Explain the importance of anchors to hyperlinks (2 Marks)
- (ii) Illustrate how to link an anchor within the current page. (2 Marks)

QUESTION TWO [12 MARKS]

- (i) Write the syntax of making an image as a link (2 Marks)
- (ii) Explain an image map (2 Marks)
- d) Write an HTML code that implements the following list (8 Marks)

Kenya and its neighbors:

1. Kenya
2. Uganda
3. Tanzania
4. South Sudan
5. Ethiopia
6. Somalia

SECTION B [36 MARKS] (ATTEMPT ANY THREE QUESTIONS FROM THIS SECTION)

QUESTION THREE [12 MARKS]

- a) Website usability plays a vital role in the success of a website. Good usability helps to provide a seamless experience for visitors and improves your chances of success. It is one of the factors that set a professionally designed website apart from the rest.

Explain four usability characteristics that a good website must display (8 Marks)

- b) To align inline images with text, the align attribute of the img element is used.

Explain two alignment types (4 Marks)

QUESTION FOUR [12 MARKS]

- a) While Web pages have become increasingly complex, their underlying structure remains remarkably simple. A Web page is made up of *text content*, *references* to more complex content, and *markup* to describe how things should be displayed. Markup can include formatting instructions or details about relationships between parts. Because the markup is text, the document is universally readable. XHTML has three main types of markup: elements, attributes, and values. Describe each of these three main types of markup. (9 Marks)

- b) Discuss the concept of image sprites in Website design. Use appropriate illustrations. (3 Marks)

QUESTION FIVE [12 MARKS]

- a) Describe CSS Animation using a suitable illustration (4 Marks)
- b) Explain each of the following terms in relation to Website design:
- (i) Image Map (4 Marks)
 - (ii) Navigation Tools for Websites
- c) Explain the concept of Rollovers as applied to Website design (4 Marks)

QUESTION SIX [12 MARKS]

- a) Discuss the concept of Typography in Website design. (8 Marks)
- b) Explain the concept of Hyperlinks, showing the syntax of creating one with a specific example. (4 Marks)

QUESTION SEVEN [12 MARKS]

- a) Distinguish between Relative versus absolute paths (URLs). (4 Marks)
- b) Explain how an image map is defined. (4 Marks)
- c) While rollovers are not in themselves animated images, some users and HTML experts have managed to create animation-like effects. Explain three different types of Rollovers (4 Marks)
