



**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2021/2022 ACADEMIC YEAR**

SECOND YEAR SECOND SEMESTER REGULAR EXAMINATIONS

**FOR THE DEGREE
OF**

**BACHELOR OF SCIENCE IN INFORMATION SYSTEMS AND KNOWLEDGE
MANAGEMENT**

COURSE CODE: BIK 215

COURSE TITLE: APPLICATION DEVELOPMENT FOR THE INTERNET

DATE: Wednesday 27th April, 2022

TIME: 8:00-10:00 AM

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and choose any other Two.

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 4 Printed Pages. Please Turn Over.

QUESTION ONE (COMPULSORY 30 MARKS)

Assuming you are a Web Development consultant and been approached by Company XYZ for development, publishing and maintenance of their website:

- a) Outline three ways in which Application Development for the Internet as a course will help you in accomplishing the task **[3 Marks]**
- b) Explain how the knowledge of the following is appropriate in undertaking the task:
 - i. PHP **[2 Marks]**
 - ii. Interaction Design **[2 Marks]**
 - iii. Domain Name **[2 Marks]**
 - iv. Domain Identifier **[2 Marks]**
- c) Outline four elements that would form part of your webpages in the above task **[4 Marks]**
- d) Outline four resources you will require for the task **[4 Marks]**
- e) List five general components you will involve to make the website effective and successful **[5 Marks]**
- f) Explain three approaches you would apply at the development stage of the task **[6 Marks]**

QUESTION TWO

- a) Describe style rules as used in web development today **[4Marks]**
- b) Describe the three methods of implementing styling information to an HTML document **[9Marks]**
- c) Describe ID and class as used in web development **[4Marks]**
- d) Which is the correct place to insert a JavaScript statements in a HTML document **[3Marks]**

QUESTION THREE

A training session is to be designed on how the company's computers are linked together over the internet. Your task is to produce self-explanatory notes for the trainees. Using examples produce a set of notes explaining each of the following computing terms:-

- i. Client **[5Marks]**
- ii. TCP/IP **[5Marks]**
- iii. Web Browser **[5Marks]**
- iv. Get/Post **[5Marks]**

QUESTION FOUR

Technology does not stand still and programmers have to continually update their skills

a) As a trainer explain the following terms.

[5Marks]

- (i) Tags
- (ii) Head
- (iii) Body
- (iv) Titles
- (v) Footers

b) Produce sets of HTML coding incorporating the terms in part a) [5Marks]

c) Briefly explain the contrasts between the coding used in HTML with the coding used in lower level languages such as machine code. [5Marks]

d) Describe the characteristics of PHP-MySQL, that make it frequently used in Creating web pages. [5Marks]

QUESTION FIVE

a). Describe the purpose of the following as used in forms and give a code snippet of the tag elements for their implementation in a webpage design. [9Marks]

- (i) Radio Buttons
- (ii) Check Boxes
- (iii) Drop Down Boxes

b) Discuss any five uses of DBMS in design of websites today. [5Marks]

c) Explain how you get information from a form that is submitted using the "get" method? [6 Marks]