



ALUPE UNIVERSITY
COLLEGE
...Bastion of Knowledge...

P. O.Box 845-50400 Busia(K)
principal@auc.ac.ke
Tel: +254 741 217 185
+254 736 044 469
off Busia-Malaba road

**OFFICE OF THE DEPUTY PRINCIPAL
ACADEMICS, STUDENT AFFAIRS AND RESEARCH**

UNIVERSITY EXAMINATIONS

2019/2020 ACADEMIC YEAR

SECOND YEAR FIRST SEMESTER EXAMINATION

FOR THE DEGREE OF BACHELOR OF COMPUTER SCIENCE

COURSE CODE: COM 216

COURSE TITLE: INTERNET FUNDAMENTALS

DATE: 5TH DECEMBER, 2019

TIME: 9.00 AM – 12.00 PM

INSTRUCTION TO CANDIDATES

- **SEE INSIDE**

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

COM 216: INTERNET FUNDAMENTALS

STREAM: BSc (Computer Science)

DURATION: 3 Hours

INSTRUCTIONS TO CANDIDATES

- i. Answer **ALL** questions from section A and any **THREE** from section B.
- ii. Maps and diagrams should be used whenever they serve to illustrate the answer.
- iii. Do not write on the question paper.

SECTION A (24 MARKS) COMPULSORY

QUESTION ONE [12 MARKS]

- a. Define the following terms as used in internet technologies. **[4 marks]**
 - i. Internet
 - ii. Protocol
 - iii. Search engine
 - iv. Telnet
- b. Becky is a business lady who wishes to have internet, especially to sell and buy goods for her customers and to be known all over the world. How can you advise her on choosing the right ISP. **[4 marks]**
- c. Explain the origin and history of internet. **[4 marks]**

QUESTION TWO [12 MARKS]

- a. Identify TWO services of internet. **[2 marks]**
- b. Discuss FIVE types of internet connections. **[10 marks]**

SECTION B [36 MARKS]

QUESTION THREE [12 MARKS]

- a. URL is referred to as a web address that connects the user to a particular website. Explain the four basic parts of the following URL. **[4 marks]**

<https://www.auc.ac.ke/elearning/internet.html>

- b. Explain FOUR advantages and FOUR disadvantages of the Internet. **[8 marks]**

QUESTION FOUR [12 MARKS]

- a. Briefly explain any TWO types of HTML list tags. **[4 marks]**

b. Write an HTML table tag sequence that outputs the following:

[8 marks]

SHOPPING CART		
ITEM	AMOUNT	
	KES	US Dollar
Calculator	100	1
Book	3500	35

QUESTION FIVE [12 MARKS]

- a. Discuss the THREE categories of Name Servers that manages the entire Domain Name System. [6 marks]
- b. Differentiate between intranet and extranet. [6 marks]

QUESTION SIX [12 MARKS]

- a. Demonstrate how you can incorporate php scripts in an HTML code. [2 marks]
- b. Explain FIVE important characteristics make PHP's practical nature possible. [10 marks]

QUESTION SEVEN [12 MARKS]

- a. With the aid of a diagram, discuss the seven layers of the OSI reference model. [12 marks]
