



# **GRE TSA UNIVERSITY - THIKA**

## **UNIVERSITY EXAMINATIONS MAY - AUGUST 2018 SEMESTER**

### **BACHELOR OF SCIENCE IN COMPUTER SCIENCE**

**COURSE CODE: BSCS 206**

**COURSE TITLE: INTRODUCTION TO INTERNET TECHNOLOGIES**

**DATE: 6 AUGUST 2018**

**TIME: 11.30 AM - 2.30**

**PM**

#### **INSTRUCTIONS TO CANDIDATES**

1. SECTION A IS **COMPULSORY**.
2. SECTION B: ANSWER ANY OTHER **THREE** QUESTIONS.
3. **DO NOT** WRITE ANYTHING ON THIS QUESTION PAPER AS IT WILL BE AN EXAM IRREGULARITY.
4. ALL ROUGH WORK SHOULD BE AT THE BACK OF YOUR ANSWER BOOKLET AND CROSSED OUT.

**CAUTION:** *All exam rooms are under CCTV surveillance during the examination period.*

## SECTION A: COMPULSORY

### Question One

- a) Define the following terms as used in Internet Technologies **[5 marks]**
- i. Intranet
  - ii. Proxy server
  - iii. Web Hosting
  - iv. Domain Name Server
  - v. Protocol
- b) Discuss the elements connect the Internet's origins to its present-day incarnation **[7 marks]**
- c) Discuss the types of Web Hosting Services available to host your website **[6 marks]**
- d) Using a diagram explain the hierarchical Domain tree **[7 marks]**
- e) The Web Pages can take different structures depending on the design needs of a client. However, there is a common web page anatomy. Describe its structure using a diagram **[6 marks]**
- f) Discuss the THREE email protocols **[6marks]**
- g) Explain the basic features of a hosting plan **[5 marks]**
- h) Discuss four issues associated with using Extranet **[2 marks]**

## SECTION B: ANSWER ANY THREE QUESTIONS

### Question Two

- a) Even the most experienced IT chief and web security expert must stay vigilant and guard against the bad guys. No one is safe without knowing what to look out for. Discuss the most common security vulnerabilities you must protect yourself against. **[10 marks]**
- b) TCP/IP model is a practical model and is used in the Internet. Discuss the several layers of the TCP/IP model mentioning the protocols used in every layer **[10 marks]**

### Question Three

- a) Using a diagram, illustrate the seven steps involved in the Working of an email system **[10 marks]**
- b) Let's suppose, a user is trying to access the home page of [www.google.co.ke](http://www.google.co.ke) . How the

DNS does resolves its IP addresses?

[10 marks]

**Question Four**

a) What is SEO? Discuss ways to achieve Search Engine Marketing through SEO

[6 marks]

b) Briefly explain the type of Ecommerce

[6 marks]

c) Using HTML write a code that will create a form with the following content

- i. Title
- ii. Labels
- iii. Input boxes
- iv. Radio buttons
- v. Checkboxes
- vi. Drop down menu
- vii. Buttons

[8 marks]

**Question Five**

a) Briefly explain the use of SSL certificates in E-commerce sites

[6 marks]

b) Discuss three types of proxies

[6 marks]

c) Describe two types of web architectures

[4 marks]

d) Illustrate the use of in-line CSS in HTML

[4 marks]

**END OF EXAMINATION**