



# **GRE TSA UNIVERSITY - THIKA**

**UNIVERSITY EXAMINATIONS**

**JAN – APRIL 2025 SEMESTER**

**BACHELOR OF COMPUTER SCIENCE**

**COURSE CODE: BSCS 206**

**COURSE TITLE: INTRODUCTION TO INTERNET TECHNOLOGIES**

**DATE: APRIL 2025**

**TIME: 11:30PM-2.30 PM**

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## **INSTRUCTIONS TO CANDIDATES**

1. SECTION A IS **COMPULSORY**.
2. SECTION B: ANSWER ANY OTHER **TWO** 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

- a) Define the following terms [5 marks]
- ARPANET
  - Search engine
  - IP address
  - .com
  - internet
- b) Joseph would like to develop an e-commerce website for selling electronic gadgets.
- Discuss the importance of the domain name system for his site [2 marks]
  - Discuss the significance of domain server in relation to the site [1marks]
  - Name and explain the most appropriate ISP provider for this site [2 marks]
- c) Moses bought a Modem from a safaricom shop with an intention of connecting to the internet. Discuss this type of internet connectivity stating its advantages and disadvantages [5 marks]
- d) Alice was searching a document. Discuss what makes it possible to search documents or information in our browsers. [5 marks]
- e) The only way to connect to the internet is through the access via different internet service providers. State and explain different ISPS that enable us to connect to the internet [4 marks]
- f) Write a simple HTML code to implement display this form [3 marks]

```
<div>
  <div>Username</div>
  <input type="text" value="Username Please">
  <div>Password</div>
  <input type="password" value="Enter Password">
  <button type="button" value="Login">Login</button>
</div>
```

- g) Discuss the evolution of the internet [3 marks]

## SECTION B: ANSWER ANY TWO QUESTIONS

### Question Two

- a) Discuss advantages and disadvantages of the internet in the modern day lifestyle [6 marks]
- b) Any website has to be hosted for easy access. Discuss different ways one can be possibly host his/her website. [8 marks]
- c) The TCP/IP reference model is a practical approach when it comes to internet implementation. Discuss its layers and their significant [6 marks]

### Question three

- a) What is a protocol, [2 marks]

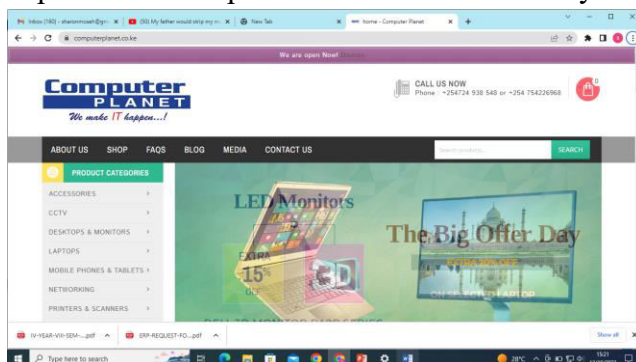
- b) Akinyi was doing research and she typed the following information on the browser;  
[https://www.mycadsite.com/tutorials/level\\_1/introduction-to-AutoCAD-basics-1-1.html](https://www.mycadsite.com/tutorials/level_1/introduction-to-AutoCAD-basics-1-1.html)  
 From the information above identify, state and explain the important features of the domain name system. **[8 marks]**
- What kind of URL is it, giving reasons
  - State and explain the domain name and its significance
  - State and explain the name space
  - State and explain the name server
  - Identify the kind of document she likely accessed
- c) Discuss extranet **[2 marks]**
- d) State and explain different types of websites that can be developed to convey information **[8 marks]**

#### Question Four

- a) Discuss the how domain name system works and its importance with regard to internet access. **[5 marks]**
- b) Websites are prone to security attacks. Discuss any security mechanisms one is likely to deploy **[5 marks]**
- c) Write a php code to display, My website page **[5 marks]**
- d) Discuss different internet services Joseph is likely to access by installing a wifi in his home **[5marks]**

#### Question five

- a) Below is a sample website for an electronic company selling computers. Study it, state and explain different parts of the website anatomy that were used. **[6 marks]**



- b) The ISO reference model is an hypothetical model of the internet. Discuss different layers of the model and their significance **[6marks]**
- c) Write an HTML to implement the table below **[6marks]**

| company | location | address |
|---------|----------|---------|
|         |          |         |
|         |          |         |

**d)** Describe the world wide web

**[2marks]**