

UGANDA MARTYRS UNIVERSITY
FACULTY OF SCIENCE AND EDUCATION
DEPARTMENT OF INFORMATION SYSTEMS

SEMESTER I EXAMINATIONS 2012/2013

PROGRAMME: DIPLOMA.IT, BSC.IT(I), BSC.GEN(I)

YEAR OF STUDY: I

COURSE NAME: INTERNET TECHNOLOGIES AND WEB AUTHORIZING

COURSE CODE: CSC1102

DATE: Thursday 20th Dec 2012

TIME: (2:00 P.M – 5:00 PM)

EXAMINATION INSTRUCTIONS

1. **ATTEMPT ANY FIVE (05) QUESTIONS (20 MARKS @)**
2. **DO NOT OPEN THIS EXAM UNTIL YOU ARE TOLD TO DO SO**
3. **ALL ROUGH WORK SHOULD BE IN YOUR ANSWER BOOKLET**

✓ **Question 1:**

- (a) With aid of a diagrams differentiate between WAN and LAN. [4 marks]
- (b) Describe any two limitations common in WAN compared to LAN. [3 marks]
- (c) A network simplifies the task of administering and managing users. Explain. [3 marks]
- (d) With an example describe any two reasons why you would advocate for installation a network in a given school. [4 marks]
- (e) Describe the meaning of the following terms as applied Internet technologies and Web Authoring. [6 marks]
 - (i) NOS
 - (ii) A node
 - (iii) File server

✓ **Question 2**

- (a) Describe any two features of NOS. [2 marks]
- (b) Describe how the following devices operate [6 marks]
 - (i) Switch
 - (ii) Router
- (c) Differentiate between FTP and Telnet. [4 marks]
- (d) What a gateway. [2 marks]
- (e) What symptoms would suggest that there could be a problem with a gateway? [2 marks]
- (f) Describe any two benefits of wired communication media in comparison to wireless. [4 marks]

✓ **Question 3**

- (a) With help of diagram describe the following as applied to internet technologies. [4 marks]
 - (i) CAT cable
 - (ii) Coaxial cable
- (b) Describe any two scenarios that may prompt an organization to change from other types of cabling to fiber. [4 marks]
- (c) An organization is planning to use fiber cabling. You are required to educate this organization on any two hurdles that you are foreseeing. [4 marks]
- (d) What you understand by the term topology? [2 mark]
- (e) With the aid of a diagram describe the following [6 marks]
 - (i) Star topology
 - (ii) Bus topology

✓ **Question 4**

- (a) A star topology is easier to troubleshoot than a bus topology. Explain [3 marks]
- (b) Explain any two factors which influence the choice of a topology. [4 marks]
- (c) Explain the role of twisting wires in CAT cable. [3 marks]
- (d) TCP/IP is sometimes called DoD protocol. Explain [2 marks]

(e) The describe the meaning of the following terms

[2 marks @]

- (i) POP
- (ii) TCP
- (iii) MIME
- (iv) SMTP

Question 5

(a) What do you understand by the term HTML?

[2 marks]

(b) What do the following tags do in HTML?

[6marks]

- (i) <title>My First Web Page</title>.
- (ii)

- (iii) home page
- (iv)
- (v) <i> Good morning </i>
- (vi) <textarea> <textarea>

(c) Give the output from the following code.

[6marks]

```
<table border =1>
<tr> <td> NAME</td> <td> COURSE</td></tr>
<tr> <td> TOM </td> <td> BSC.IT </td></tr>
<tr> <td> BOB </td> <td> BSC.GEN</td></tr>
<tr> <td> SHALON</td> <td> FINANCIAL MATHS</td></tr>
</table>
```

(d) Write an HTML code that would display following output in the browser.

[6 marks]

The screenshot shows a web browser window with the title 'Mozilla Firefox'. The address bar shows the file path 'file:///C:/Users/.../home2.html'. The page content displays a registration form with the heading 'REGISTRATION' in bold. Below the heading is a text input field labeled 'Name:' and a 'send' button.

✓ Question 6

(a) What do you understand by the term Web authoring tools as applied to website development?

[3 marks]

(b) Describe ~~the functional~~ a text editor in relation to website design/development.

[4 marks]

(c) *Describe* Identify any other two categories used in development of software *website*.

[6 marks]

(d) Describe one advantage and one disadvantage of using text editors.

[4 marks]

- (e) Describe at least one benefit of using WYSIWYG.
(f) Give the output from the following html code

[1 mark]

[2 marks]

```
<ol>
<li>List item 1</li>
<li>List item 2</li>
<li>List item 3</li>
<li>List item 4</li>
</ol>
```

Question 7

Differentiate between each of the following.

[4 marks @]

- (a) intranet and extranet
- (b) Spams and Mailing list
- (c) WWW and Internet
- (d) Internet chatting and video conferencing
- (e) FTP and HTTP