



UNIVERSITY EXAMINATIONS: 2016/2017

**ORDINARY EXAMINATION FOR THE DEGREES OF BACHELOR OF
SCIENCE IN INFORMATION TECHNOLOGY**

**BIT 1203 WEB DESIGN AND DEVELOPMENT
FULLTIME/PART TIME/DISTANCE LEARNING**

DATE: AUGUST, 2017

TIME: 2 HOURS

INSTRUCTIONS: Answer **Question One** & ANY OTHER **TWO** questions.

QUESTION ONE (30 MARKS)

- a). Describe the protocols of the internet. [5Marks]
- b). What are some of the factors to consider when designing a web site? [4Marks]
- c). HTML provides a number of different form fields whose contents can be edited by the user. The <INPUT> element is used to specify the majority of these. Write an HTML code whose <INPUT> elements is the following; [6Marks]
- i. RADIO
 - ii. RESET
 - iii. SUBMIT
 - iv. TEXT
- d)
- i. As a trainer explain the following terms.
 - (i) Href [2Marks]
 - (ii) IMG SRC [2Marks]
 - (iii) <HEAD> [2Marks]
 - (iv) FRAMESET [2Marks]
 - (v) <A> [2Marks]
 - ii. Produce a basic set of HTML coding incorporating the terms in part i) [5Marks]

QUESTION TWO (20 MARKS)

- a). Write an HTML code to design the following information; [6Marks]
- i. Are you a vegetarian or a non-vegetarian?
 - Vegetarian
 - Non-vegetarian
 - ii. What is your profession?
 - Teaching
 - Research
 - Medicine
 - Engineering
 - Clerical
 - Business
 - Other
 - iii. Type your comments on our food items. (use textarea field)

- b). Write down the output for the following code; [6Marks]

```
<HTML>
  <HEAD> <!--Example of Row frames-->
</HEAD>
<frameset COLS="40%,*">
<NOFRAMES>
  This document uses frames
</NOFRAMES>
  <frame SRC="location and file name">
  <frameset ROWS="20%,*">
<frame SRC="location and file name">
</frameset>
```

```
</HTML>
```

- c). Describe six services provided by the internet. [6Marks]
- d). Explain the main attributes of the tag attribute. [2Marks]

QUESTION THREE (20 MARKS)

- a) Give the functions of the following as used in HTML

- i. <ISINDEX> [2Marks]
- ii. <NEXTID> [2Marks]
- iii. <BASE> [2Marks]

- b) Write an HTML program that produces a table that shows the end of semester timetable for exams. [6Marks]

- c). Briefly explain the contrasts between the coding used in HTML with the coding used in lower level languages such as machine code. [6Marks]

d). Describe TWO uses for tables in HTML. [2Marks]

QUESTION FOUR (20 MARKS)

- a). Explain the following types of documents and give one advantage and one disadvantage of each as used in internet programming
- i). Static document
 - ii). Active documents
 - iii). Dynamic documents [6Marks]
- b). State the function of the following servers [3Marks]
- i. Mail server
 - ii. Print server
 - iii. File server
- c). Give four benefits and limitations of XML [8 Marks]
- d). Identify the tags used in HTML. [3Marks]

QUESTION FIVE (20 MARKS)

- a). Images come in different file formats
- (i) State three factors to consider before including the background image in your web page. [3Marks]
 - (ii) Briefly explain the formats for Bitmap images as used in web design and development [3Marks]
 - (iii) Compare the GIF and JPEG files formats [4Marks]
- b) State the difference between the following terms as used in HTML [6Marks]
- (i) ROWSPAN and COLSPAN
 - (ii) A tag and HREF tag
 - (iii) FRAMESET tag and FRAME tag
- c) Briefly describe the function of the following elements [4 Marks]
- (i) THEAD
 - (ii) TFOOT

d) 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 [5 Marks]

(ii) TCP/IP [5 Marks]

(iii) Web Browser [5 Marks]

(iv) Get/Post [5 Marks]