(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR

SPECIAL/SUPPLEMENTARY EXAMINATIONS
YEAR TWO SEMESTER ONE EXAMINATIONS

FOR THE DEGREE OF
BACHELOR OF SCIENCE COMPUTER SCIENCE

COURSE CODE: CSC 213

COURSE TITLE: APPLICATION DEVELOPMENT FOR THE INTERNET

DATE: 18/10/2018   **TIME:** 3:00 P.M – 5:00 P.M

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION 1 [30 MARKS]

a. What is meant by client server computing? [2 marks]

b. What is meant the following Acronyms and concepts as used in the study of Application development for the internet? [3 marks]

   i. URL

   ii. HTML

   iii. Web browser:

c. Using a suitable illustration discuss the concepts of client server computing as studied in Application development for the internet [6 marks]

d. What is the difference between the Submit button and Reset button of HTML form?

e. When is **GET** and **POST** methods used as a form attributes? [4 marks]

f. Write the tags to define the following:

(i) A text box (ii) A radio button (iii) A check box (iv) A password box

(v) Submit button [5 marks]

g.   Differentiate between order and unordered lists [4 marks]

h. Discus the concept behind database design. [6 marks]

QUESTION 2 [20 MARKS]

a. Specify the tags and attributes to Send a form to the e-mail address [2 marks]
mymail@emaillaccount.com.

b. Specify the tag and attributes used to create a textbox which can accept maximum of 20 characters with a default value "Enter Name". [2 marks]

c. What are the differences between a domain and a workgroup? [4 marks]

d. Give short note on an application gateway [4 marks]

e. Using a client server model for application development, there is a choice of how much of the applications code is contained in the client and how much of the applications code is contained in the server. Discuss with justify [8 marks]
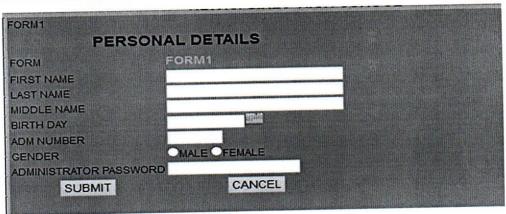
   i. A terminal emulator

   ii. An application for a shopping site

QUESTION 3 [20 MARKS]

a) Discuss web server architecture with the help of suitable diagram. Differentiate between client side and server side scripting. [6 marks]

b) What is PHP? Discuss various data types, control statements, string functions and server Define the term Protocol. [6 marks]

c) Describe and comment on issues that should be considered by developers and users of client server systems to ensure that those who access the system: [8 marks]

• Have the authorization to use the system.

• Have the authorization to use and see the data that they access.

QUESTION 4 [20 MARKS]

a) Write short notes on PHP and SQL as programming languages [4 marks]

b) The screen shot below show a student registration form study it and use it to answer the questions that follow

i) Write a PHP script that connects to a MYSQL database called *students* using the default MYSQL login credentials. **[4 marks]**

ii) Write down HTML codes that implement the above form [6 marks]

iii) Write embedded PHP and SQL codes that will save the student personal details above in *registration* table in *student* database, when submit button is clicked [6 marks]

QUESTION 5 [20 MARKS]

a) Discuss the following concepts as used in client applications [8 marks]
  i. Sessions
  ii. Cookies
  iii. Server side scripting language
  iv. Client side scripting language

b) Do you think java scripts are important in developing E-commerce application? Discuss.
[4 marks]

c) Write java scripts to do the following activities
  i. Implement page print functionality
  ii. Validate a form given in QUESTION #4 part (b) above such that an empty field is not submitted. [8 marks]