



KENYA METHODIST UNIVERSITY

END OF 1ST TRIMESTER 2010 EXAMINATIONS

FACULTY	:	COMPUTING AND INFORMATICS
DEPARTMENT	:	COMPUTER INFORMATION SYSTEMS
UNIT CODE	:	CISY 232
UNIT TITLE	:	INTERNET APPLICATIONS AND PROGRAMMING
TIME	:	2 HOURS

Instructions:

- Answer question 1 and any other 2 questions.

SECTION A (30 MARKS)

Question 1

- i) Define the following terms;
 - a) Internet
 - b) Open standards
 - c) Web browser (3 mks)
- ii) Describe any two methods of connecting to the internet. (4 mks)
- iii) Briefly describe any four issues/requirements to consider before constructing a website. (4 mks)
- iv) Give at least five changes XHTML has made in HTML. (5 mks)
- v) With the help of an example, give and describe the syntax of cascading stylesheets. (4 mks)
- vi) What is the importance of Java script when developing a website? (4 mks)
- vii) Briefly describe how SSL works. (4 mks)
- viii) What is the importance of a web server? (2 mks)

SECTION B (30 MARKS)

Question 1 (15 marks)

- i) Describe three ways in which CSS can be inserted in a HTML document. (6 mks)
- ii) With the help of a program, describe how to connect PHP to a MySQL database. (5 mks)
- iii) Describe the two variables used in PHP to retrieve information from a form. (4 mks)

Question 2 (15 marks)

Write a program that creates the following form and validates each field. It should also input the data into a database. (15 mks)

The form contains the following fields and elements:

- Subject: *** [Text input field]
- Name: *** [Text input field]
- E-mail Address: *** [Text input field]
- Mailing Address:** [Text area with vertical scrollbars]
- City:** [Text input field]
- State:** [Dropdown menu with "Alabama" selected]
- Zip Code:** [Text input field]
- Phone:** [Text input field with mask "(xxx) xxx - xxxx"]
- Message:** [Text area with vertical scrollbars]
- Verification Code:** [Image showing a CAPTCHA code "93F65"]
- Enter Verification Code: *** [Text input field]
- Submit** [Submit button]
- * Required** [Legend for required fields]

Question 3 (15 marks)

- i) Briefly describe how SET work and give at least two strengths and two weaknesses of SET. (8 mks)
- ii) Describe the diagram below with respect to the operating characteristics of the Internet. (7 mks)

