



KIBABII UNIVERSITY COLLEGE

(A Constituent College of Masinde Muliro University of Science Technology)

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UNIVERSITY REGULAR EXAMINATIONS

2013/2014 ACADEMIC YEAR

2ND YEAR 2ND SEMESTER EXAMINATIONS

BACHELOR OF SCIENCE

IN INFORMATION TECHNOLOGY

COURSE CODE: CSC 226

COURSE TITLE: CLIENT SERVER COMPUTING

DATE: 28TH APRIL, 2014

TIME: 9:00A.M.- 12 NOON

Instructions:

Answer Question 1 and two questions from section B. Time: 2 Hours

SECTION A (Compulsory – 30 Marks)

QUESTION 1

- a) Explain the following concepts in relation to Client server computing:
- (i) HTTP Servlet (4 Marks)
 - (ii) Java Servlets (2 Marks)
 - (iii) Common Gateway Interface (5 Marks)
- b) Explain each of the following enterprise-wide web – based applications security issues:
- (i) Authentication: (2 Marks)
 - (ii) Integrity: (2 Marks)
 - (iii) Confidentiality: (2 Marks)
 - (iv) Non-repudiation: (2 Marks)
 - (v) Authorization: (2 Marks)
- c) (i) Explain the purpose of an active X component. (4 Marks)
- (ii) External Style sheets (2 Marks)
- d) Explain three typical uses of HTTP Servlets (3 Marks)

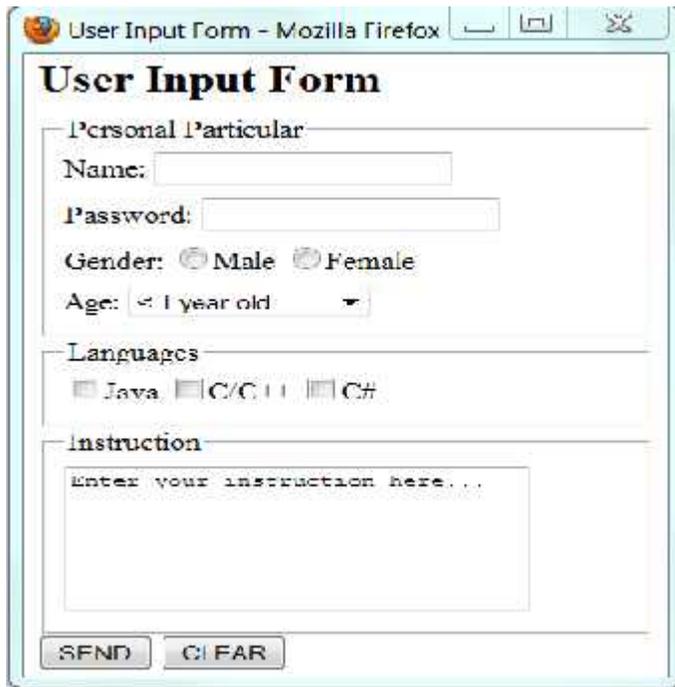
SECTION B (Attempt any TWO Questions from this section – 40 Marks)

QUESTION 2

- a) Explain the client server model (5 Marks)
- b) A function is a block of code that will be executed when "someone" calls it
- (i) Write the syntax of a function in Javascript. (6 Marks)
 - (ii) Illustrate how a function is written in JavaScript using an example. (9 Marks)

QUESTION 3

- a) Identify and explain any four HTML Form attributes (4 Marks)
- b) Write an HTML code to implement the following Form (16 Marks)



QUESTION 4

- a) Client/server systems are constructed so that the database can reside on a central computer, known as a server, and be shared among several users. Users access the server through a client or server application:

Explain five benefits of having data stored and managed in a central location. (10 Marks)

- b) (i) Explain the HTTP protocol (4 Marks)

(iii) Explain three properties of the HTTP protocol (6 Marks)

QUESTION 5

- a) (i) Explain the Post Office Protocol 3 (2 Marks)

(ii) Explain three benefits of POP 3 (3 Marks)

- b) Write HTML code that implements the following page when executed in a browser: (15 Marks)

Peter's Home Page

About Peter

I'm a student at Kibabii University College

Hobbies

1. Watching Movies
2. Playing Soccer
3. Reading Novels

Watching Movies Log

Date	Movie	Duration (Hrs)	Comment
23/01/2014	Pulp Fiction (1994)	5	A wonderful movie!
27/01/2014	Redemption (1994)	3	Spine chilling!