

# JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL INFORMATICS AND INNOVATIVE SYSTEMS UNIVERSITY EXAMINATION FOR THE DEGREE OF SCIENCE COMPUTER SECURITY & FORENSICS

2<sup>ND</sup> YEAR 1ST SEMESTER 2013/2014 ACADEMIC YEAR

**CENTRE: MAIN** 

**COURSE CODE: IIT 3214** 

COURSE TITLE: WEB APPLICATION TECHNOLOGIES

EXAM VENUE: LR 6 STREAM: BSc. Computer Security & Forensics

DATE: 19/12/2013 EXAM SESSION: 11.30 – 1.30 PM

TIME: 2 HOURS

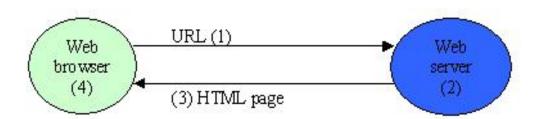
# **Instructions:**

- 1. Answer question 1 (Compulsory) and ANY other 2 questions.
- 2. Candidates are advised not to write on the question paper.
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

# **QUESTION ONE**

```
a) What is Web 2.0?
                                                                                   (2 Marks)
   b) i) What is Web Client-side application
                                                                                   (2 Marks)
        ii) The following is a simple javascript
<HTML>
<HEAD>
 <TITLE>Simple JavaScript Button</TITLE>
<SCRIPT TYPE="text/javascript">
function dontClick() {
alert ("I told you not to click !");
//-->
</SCRIPT>
</HEAD>
<BODY BGCOLOR="RED">
<H1>Simple JavaScript Button</H1>
<FORM>
 <INPUT TYPE="BUTTON"</pre>
        VALUE="Don't click Me"
        onClick="dontClick () ">
</FORM>
</BODY>
</HTML>
   i) When executed which heading will be displayed for the above script
                                                                                   (2 Marks)
   ii) When clicked which event will occur.
                                                                                   (2 Marks)
   c) Define the following Terms as used web Applications:
              The web and the Internet
      i)
                                                                                   (4 Marks)
      ii)
             Web Client
                                                                                   (2 Marks)
             Web Server
      iii)
                                                                                   (2 Marks)
      iv)
             Web Page
                                                                                   (2 Marks)
       v)
             Web Development
                                                                                   (2 Marks)
             The SCRIPT Tag and give an example
                                                                                   (2 Marks)
      vi)
   d) State three ways to add JavaScript commands to your Web Pages.
                                                                                   (3 Marks)
   e) i) What is Java Class?
                                                                                   (2 Marks)
      ii) What does Java Class Consist
                                                                                   (2 Marks)
      iii) Give a Template of a java class called Dipondo:
                                                                                    (2 Marks)
Question TWO
   i)
          What does HTML stands for
                                                                                   (2 Marks)
   ii)
          Identify the in the element, attribute name and attribute value in the following HTML
          Element / Tag
                                                                                   (3 Marks)
```

- iii) Explain four Limitations of client-side technologies (8 Marks)
- iv) The figure below shows the sequence of Client side processing



# Explain what happens at every scripting stage numbered 1,2,3 and 4

. (8 Marks)

## **QUESTION THREE**

- i) Write the following abbreviations in full and state the functions of each. (6 Marks)
  - a. AJAX
  - b. ASP
  - c. CSS
- ii) Explain the differences between client side code and server side code. (4 Marks)
- iii) The following is a simple java program.
- 1. public class Welcome {
- 2. public static void main(String[] args) {
- 3. // Display message Welcome to Java! to the console
- 4. System.out.println("Hello World!");
- 5. }
- 6. }

Explain the meaning of each line

(10 Marks)

### **QUESTION FOUR**

- a) i) State four functions of JavaScript (4 Marks)
  - ii) Can JavaScript read and write files? (1 Mark)
- b) i) What are Java Servlets (2 Marks)
- ii) Explain four advantages of Java Servlets (8 Marks)
- c) What does XHTML stands for ? (2 Marks)
- d) How does CSS save Web site developers time? (3 Marks)

QUESTION	<b>FIVE</b>
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a)	) Why is Ajax an important tool in Web site development?			(4 Marks)
b)	How are HTML, SGML, XHTML, and XML used in Web site development?			
c)	) What is the difference between Java and JavaScript?			(4 Marks)
d)	How do ASP, PHP, and SQL relate to database?			
e)	) State four reasons why most Web site developers choose to use open source pro .			
QUE	STIC	ON SIX		
a)	Writ	e the following abbreviations i  i) XML  ii) DOM  iii) DTD  iv) ASP	in full.	(4 Marks)
b)	Explain The following Parts of a basic HTML web page structure			(4 Marks)
	SN	HTML Document	Explanation (i.e Encloses which part)	
	1	<html></html>		
	2	<body> </body>		
	3	<title> </title>		
	4	<head> </head>		
c)	i)	Define a Web Server		(2 Marks)
ii) State for functions of a web server			(4 Marks)	
d) i) Who defines the web standards?			(2 Marks)	
ii) Exp	plain t	wo long term goals which nec	essitated the definition of web standards.	(4 Marks)