



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS
DEPARTMENT OF INFORMATION SYSTEMS AND TECHNOLOGY
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF BUSINESS
INFORMATION SYSTEMS
2nd YEAR 2rd SEMESTER 2017/2018 ACADEMIC YEAR
MAIN CAMPUS

COURSE CODE: IIT 3214

COURSE TITLE: WEB APPLICATION TECHNOLOGIES

EXAM VENUE: STREAM: BSC BUSINESS INFORMATION SYSTEMS

DATE: EXAM SESSION:

TIME: 2.00 HOURS 80 students

INSTRUCTIONS:

- 1. Answer Question 1 (Compulsory) and ANY other two 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 (30 MARKS)

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- a) Differentiate between the Internet and World Wide Web [2Marks]
- b) Explain the following:
- i. HTTP [1Mark]
 - ii. URL [1Mark]
 - iii. CGI [1Mark]
 - iv. CSS [1Mark]
 - v. JavaScript [1Mark]
 - vi. PHP [1Mark]
 - vii. Web application [1Mark]
- c) Define the following web terminologies [2Marks]
- i. Web browser
 - ii. Web server
- d) Distinguish between client-side and server-side scripting [2Marks]
- e) State two examples in each of the technologies used for web designing as listed below.
- i. Markup Languages. [1Mark]
 - ii. Style sheet Languages [1Mark]
 - iii. Client-side scripting [1Mark]
 - iv. Server-side scripting [1Mark]
 - v. Database technologies [1Mark]
- f) When employees use the internet at work, they expose organizations to an array of security threats. State four such types of threats. [2Marks]
- g) List four common issues that designers have to face during web design and development. [4Marks]
- h) Web browser are the underlying execution platform shared between web applications. State five major web browsers [5Marks]
- i) There are two basic aspects to any web pages found on the internet. State these two aspects [1Marks]

QUESTION TWO (20 MARKS)

- a) Describe the client-server model [5Marks]
- b) Explain how a browser makes a request and receives a response [4Marks]
- c) Use a clear diagram to explain the tiers of web based architecture. [9Marks]
- d) Briefly explain the following:
- i. Internet Information Services (IIS) [1Mark]
 - ii. Apache [1Mark]

QUESTION THREE (20 MARKS)

- a) Demonstrate the PHP and mySQL code for connecting to a database [12Marks]
- b) Examine the following parts of a URL [8Marks]
`http://www.jooust.ac.ke/`

QUESTION FOUR (20 MARKS)

- a) Explain the following:
 - i. XML [1Marks]
 - ii. DTD [1Marks]
- b) Describe the basic JavaScript syntax [8Marks]
- c) Distinguish between the following websites. [6Marks]
- d) Static website, Dynamic website and Content Managed website
- e) State and briefly describe two most common **HTTP** request methods [4Marks]

