

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF INFORMATION AND COMMUNICATION TECHNOLOGY

II YEAR II SEMESTER 2015/2016 ACADEMIC YEAR

MAIN CAMPUS

COURSE CODE: ICT 3414

COURSE TITLE: WEB APPLICATION TECHNOLOGIES

EXAM VENUE: STREAM: ICT

DATE: EXAM SESSION:

TIME: 2.00 HOURS

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

a) Discuss any five types of server-side technologies.	(5 MARKS)	
b) Briefly discuss on how to maintain security within the internet	(5 MARKS)	
c) Explain how the emergence of internet/web technology influence business scope, function and operation	ce changes on (5 MARKS)	
d) Assess critical issues related with interactions between clients a	nd server (5 MARKS)	
e) Describe how the following technologies are applied to create interface on the web.		
a) HTML b)XHTML C) DOM D)SGML	(5 MARKS)	

f) Explain how the URL and the DNS works on the web. (5 MARKS)

QUESTION TWO 20 MARKS

a) Discuss briefly on the following security measures.	(10 MARKS)
a) Authentications	
b) Cryptograph	
c) Digital signature	
d) Fire walls	
b) Explain the impact of internet/web technology on the	e following operations:
a) Research practices	

- b) Long distance learning
- c) Crafting business strategies (10 MARKS)

QUESTION THREE 20 MARKS

a) Explain how the web server and a client interacts using HTTP request and responses (10 MARKS)

b) Write short notes on the following common internet protocols:

- (i) TCP/IP
- (ii) FTP
- (iii) HTTP

(10 MARKS)

QUESTION FOUR 20 MARKS

a) Identify and explain the advantages and disadvantage of SGI and Java Script on web application technology (10 MARKS)

b) List and explain the steps involve in developing a web site and also describe on how to create interaction on the sites (10 MARKS)

QUESTION FIVE 20 MARKS

a) Provide a sketch diagram showing the output when the following code is executed 2 <html> <body bgcolor ="pink" text="blue"> <caption><u>Customer Particulars</u></caption> Name<name> Height Likes Edward 5.8 Ugali

```
Gideon
5.9
Fish
```

click
<marquee>Order for the food you prefer :Thank you</marquee>
</body>

(10 marks)

b) Discuss the differences between GET and POST method (10 marks)