

KABARAK



UNIVERSITY

EXAMINATIONS

2009/2010 ACADEMIC YEAR

FOR THE DEGREE OF BACHELOR OF EDUCATION

SCIENCE

COURSE CODE: COMP 462

COURSE TITLE: CLIENT SERVER PROGRAMMING

STREAM: SESSION VI

DAY: MONDAY

TIME: 2.00 – 4.00 P.M.

DATE: 30/11/2009

INSTRUCTIONS:

- Question ONE is compulsory and Answer any 2 questions

PLEASE TURN OVER

SECTION A 30 MARKS (COMPULSORY)

QUESTION 1

- a) Explain briefly the difference between client and server. (3mks)
- b) What is the use of the Common Gateway Interface (CGI)? (2mks)
- c) Distinguish between a proxy server and a firewall? (4mks)
- d) Explain the following types of applets:-
(i) Local applet (3mks)
(ii) Remote applet (3mks)
- e) Elaborate the advantages of servlets over traditional CGI? (6mks)
- f) Explain how the following elements are used in designing tables? (6mks)
(i) `<TR> ... </TR>`
(ii) `<TH> ... </TH>`
(iii) `<TD> ... </TD>`
- g) Briefly explain the following server operating system requirements? (3mks)
(i) Task preemption
(ii) Task priority

SECTION B (40 MARKS)

Answer any 2 questions

QUESTION 2 (20marks)

- a) Describe the following architectures:-
(i) 2-Tier architecture (6mks)
(ii) 3-Tier architecture (6mks)
- b) Write a short note on the following:-
(i) Browser (2mks)
(ii) Web page (2mks)
(iii) HTML (2mks)
(iv) Hyperlinks (2mks)

QUESTION 3 (20marks)

- a) All client-server systems have the same characteristics. State and explain briefly. (10mks)
- b) Explain the types of servers that you know? (10mks)

QUESTION 4 (20marks)

- a) Explain the applet life cycle? Giving the syntax for each (10mks)
- b) Discuss the use of the following Internet protocols:-
- (i) Transfer Control Protocol/Internet Protocol (TCP/IP) (6mks)
 - (ii) File Transfer Control Protocol (FTP) (2mks)
 - (iii) Telnet (2mks)

QUESTION 5 (20marks)

- a) Write a code in HTML language that can be used to display the following table? (10mks)

STUDENT INFORMATION			
Regno	Sname	Course	Department
CS/1001/09/09	Khalwale	BED	Theology
CS/1002/09/09	Akinyi	BED	Theology
CS/1003/09/09	Nyasuguta	BED	Theology

- b) Write short note on the following web site design principles -
- (i) Craft the look and feel (2mks)
 - (ii) Make your design portable (2mks)
 - (iii) Create smooth transitions (2mks)
 - (iv) Use of active white space (2mks)
 - (v) Design for interaction (2mks)