

KABARAK UNIVERSITY
COMP 463- CLIENT/ SERVER SIDE PROGRAMMING

INSTRUCTIONS:

Attempt **Question ONE** and **Any other TWO**.

QUESTION ONE: (30 marks)

- (a) What is a browser? State any two types of browsers commonly used. [2marks]
- (b) What is CGI? Describe its Pros of coding intermediate applications using CGI [4marks]
- (c) Write a java script program to display the largest number among any two given numbers .[4marks]
- (d) Discuss any four protocols used in client server technology. [2 marks]
- (e) Explain any three models of client server architecture [6 marks]
- (f) Discuss the syntax structure for the table tag elements with example [4 marks]
- (g) Describe the two methods used by CGI [2 marks]
- (h) Write the code to execute the following form

APPLICATION FOR ADMISSION

Name

Address

Gender **male** **female**

Means of transport **air** **water** **road**

Comments

[6marks]

QUESTION TWO (20 marks)

- (a) What is variable in java script? [2 marks]
- (b) Discuss the use of this () and new () operations in java script [2 marks]
- (c) Discuss any primitive data types used in java script programs [4 marks]
- (d) Discuss the advantages of servlets over common gateway interface applications [4 marks]
- (e) write the code to execute the following code

day	8-10	10-12	2-4	4-6	8-10
mon	Comp123	Comp212	Comp231	Comp112	Comp111
tue	Lab1	bible	seminar	seminar	Comp11
wed	library	free	seminar	Comp212	
thur		libary	Comp123	Comp231	

[8 marks]

QUESTION THREE (20 marks)

- (a) Discuss applet life cycle. [6marks]
- (b) Using a suitable diagram discuss how forms are processed in CGI applications. [4marks]
- (c) what is identifier, what are the rules used to create identifier [4 marks]
- (d) Describe with example the structure of a function in java script [4 marks]
- (e) Discuss the use of eval() and isNaN functions in java script [2marks]

QUESTION FOUR (20 marks)

- (a) Discuss how Applets differ from other applications . [4 marks]
- (b) Describe the following
 - (i) parseInt(string)
 - (ii) parseFloat(string)[4 marks]
- (b) Discuss any two properties of the window object [2 marks]
- (c) Write applet program to add two numbers entered through by the user and display the result [10 marks]

QUESTION FIVE (20 marks)

- (a) Write a java script program to perform validation for the name, age and email information when submitted by the user [8 marks]
- (b) Explain the advantages of using java script on web page [4 marks]
- (c) Explain the meaning of the following as used in the input element
- (i) Name [1 mark]
 - (ii) Type [1 mark]
 - (iii) Value [1 mark]
 - (iv) max Length [1 mark]
- (d) What is an event? [2 marks],
- (e) State any 4 types of events and explain their event handle [1/2 mark each]