



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATIONS FOR DEGREE IN
BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY (BSc. I.T 9S)
(YR III, SEM I)

BIT 2207 : INTERNET APPLICATION PROGRAMMING

END OF SEMESTER EXAMINATIONS

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consist of **FIVE** questions in **TWO** sections **A & B**

Answer question **ONE (COMPULSORY)** and any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **THREE** printed pages

SECTION A (Compulsory - 30 Marks)

Question 1

- Give the syntax used in JavaScript (2 marks)
- State the scripting types and give examples (3 marks)
- Outline the features of JavaScript (3 marks)
- Write a JavaScript program to illustrate variable assignment using two variables that are assigned numbers, and then output their sum. (4 marks)
- Write a JavaScript using a **for loop** to output 10 numbers, starting from number 1. (3 marks)

- f) Explain JavaScript functions, and give the general format of a JavaScript function. (4marks)
- g) (i) Describe cookies as used in JavaScript (4 marks)
(ii) Explain the Limitations of Cookies
- h) Describe the JavaScript Object Model, giving the format of the objects (4marks)
- i) Explain the **TWO** areas where JavaScript uses Objects (3marks)

SECTION B (Attempt any TWO questions)

Question 2

- a) Describe the types of JavaScript Features below: (9 marks)
 - i. Dynamic
 - ii. Functional
 - iii. Prototype-based
- b) Discuss the advantages and disadvantages of JavaScript (6 marks)
- c) Explain Common Gateway Interface (CGI), its purpose and any problem associated with it (5 marks)

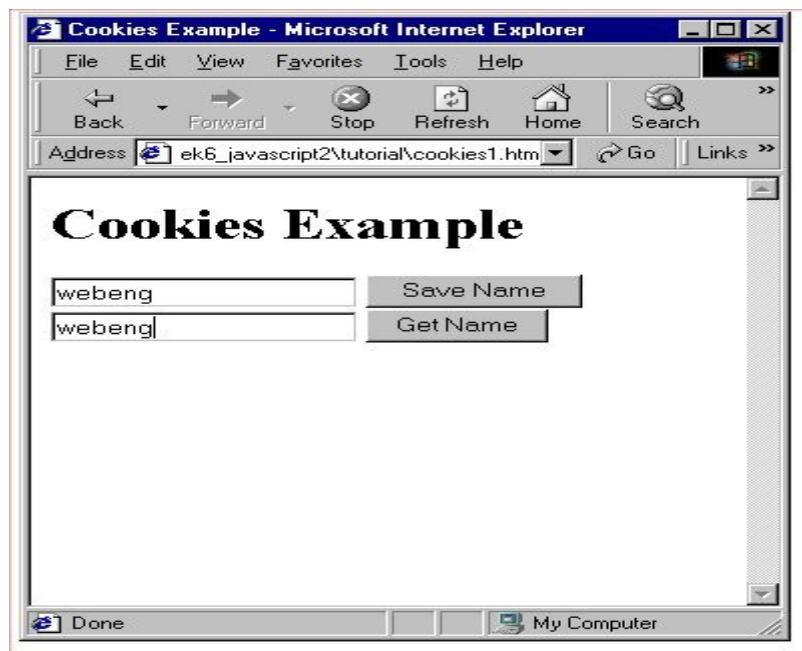
Question 3

- a) Explain the uses of JavaScript Objects (4marks)
- b) (i) State any **FOUR** Pre defined objects related to forms, giving their object Name and HTML Tag. (4marks)
- (ii) Describe the String objects in JavaScript (6marks)
- c) Using the Methods of a string object, write a JavaScript program that will produce the output given below. Use `var my string= "web engineering";` (6marks)



Question 4

- a) (i) Explain what cookies are (3marks)
- (ii) Describe cookies in JavaScript stating how to store a simple cookie (5marks)
- b) Write a script that will output the cookie below, use the function SaveName(myForm) (12marks)



Question 5

- a) Explain the main uses of Macromedia flash (5 marks)
- b) Use appropriate functions and JavaScript to design a digital clock (15marks)