



[Knowledge for Development]

**KIBABII UNIVERSITY**

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**UNIVERSITY EXAMINATIONS  
2019/2020 ACADEMIC YEAR**

**SPECIAL/ SUPPLEMENTARY EXAMINATIONS  
YEAR THREE SEMESTER ONE EXAMINATIONS**

**FOR THE BACHELOR OF SCIENCE IN COMPUTER SCIENCE**

**COURSE CODE : CSC 213.  
COURSE TITLE : APPLICATION DEVELOPMENT FOR  
THE INTERNET**

**DATE: 03/02/2021 TIME: 08.00 P.M – 10.00 A.M**

**INSTRUCTIONS TO CANDIDATES**

**ANSWER QUESTIONS ONE AND ANY OTHER TWO**

**QUESTION ONE [COMPULSORY] [30MARKS]**

- a) What is the difference between SOAP and REST? (6 marks)
- b) What is the use of a namespace in Web Development? (2 marks)
- c) What are the newly introduced input types in HTML5? (3 marks)
- d) What are the form elements that support media content in HTML5? (5 marks)
- e) What is SVG and why is it used? (4 marks)
- f) What is the use of Canvas in HTML? (3 marks)
- g) What is the difference between Canvas and SVG? (4 marks)
- h) What is the use of CORS? (3 marks)

**QUESTION TWO [20 MARKS]**

- a) Describe how page loading time be reduced? (5 marks)
- b) Explain the use of CORS? (3 marks)
- c) Difference between localStorage and sessionStorage objects? (4 marks)
- d) Outline some of the new features that are introduced in CSS3? (4 marks)
- e) What is responsive web design (RWD) in HTML and CSS? (2 marks)
- f) Outline some of the types of CSS that are used? (2 marks)

### QUESTION THREE [20 MARKS]

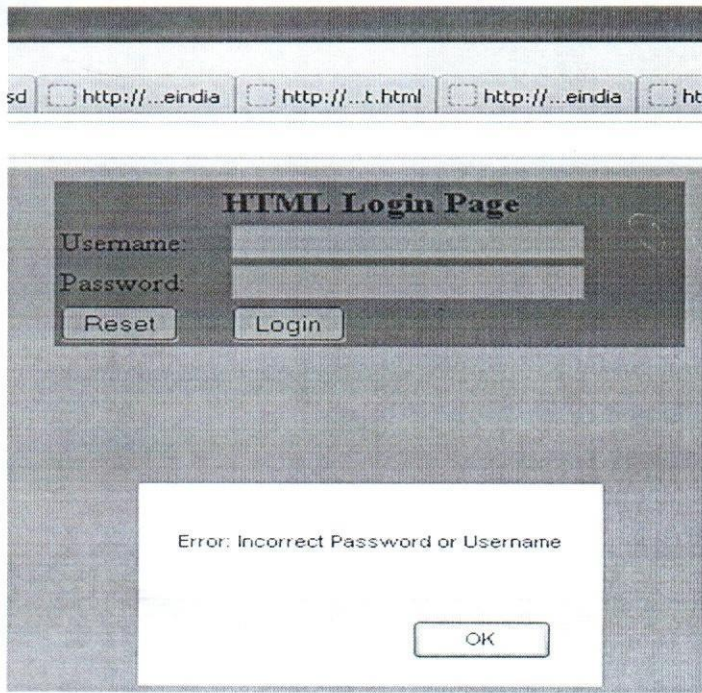
- a) Define pagination? How can pagination be implemented? (4 marks)
- b) Outline the components of the CSS box model? (4 marks)
- c) Describe some of the properties of transitions in CSS3? (4 marks)
- d) Explain the use of pseudo-classes in CSS? (4 marks)
- e) What is the use of media queries in CSS3? (4 marks)

### QUESTION FOUR [20 MARKS]

- a) Explain z-index as used in CSS? (3 marks)
- b) Why are external style sheets preferred? (3 marks)
- c) Describe long polling in Web Development? (3 marks)
- d) Outline some of the Web Development technologies that you know? (3 marks)
- e) Differentiate between cookies and local storage? (3 marks)
- f) What is the difference between XHTML and HTML? (3 marks)
- g) How can styles or classes be changed in elements using JavaScript? (2 marks)

### QUESTION FIVE [20 MARKS]

- a) Name some Javascript functions used to convert non numerical values into numbers. (3 marks)
- b) List 3 ways in which Web applications are revolutionary compared to traditional applications. (3 marks)
- c)



d) Write a code to display the window above.

(14 marks.)