



[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

a) SOAP: Simple Object Access Protocol < protocol of exchanging information in web>REST: Representational State Transfer<Designing web application>
b) Differentiate elemts with the same name to reduce conflict in web.

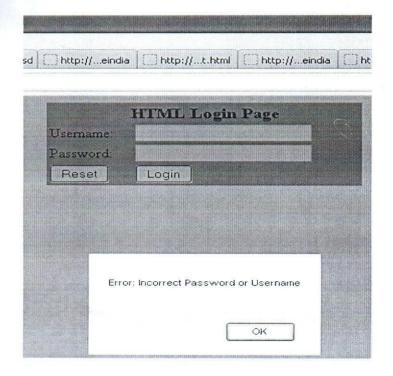
QUESTION ONE [COMPULSORY] [30MARKS]

Choose fi	e		
Audio Video Submit	a) What is the difference between SOAP and REST?	(6 marks)	
color url	b) What is the use of a namespace in Web Development?	(2 marks)	
submit date tell	c) What are the newly introduced input types in HTML5?	(3 marks)	
	d) What are the form elements that support media content in HTML	.5? (5 marks)	
	e) What is SVG and why is it used? e. Scalable Victor Graphics: -Provide drawing surface in JS -creating interactive images on		
	f) What is the use of Canvas in HTML?f. Canvas -provide drawing surface	(3 marks)	
	g) What is the difference between Canvas and SVG?	(4 marks)	
	h) What is the use of CORS? Origin Resource Share: used to allow web browsers secure origin HTTP request.	Q.2 (3 marks) a) 1.Compress file 2. Reduce file nur 3. Disable Mult de	mber. ownload.
	QUESTION TWO [20 MARKS]	4.Reduce images 5.Optimize image	
	a) Describe how page loading time be reduced?	(5 marks)	dAnimation -Transition
	b) Explain the use of CORS?	(3 marks)	-Shadows -Media queries -border radius
	 c) Difference between localStorage and sessionStorage objects? c)local- data in user's browser is stored permanently. session- data in stored temporarily. 	(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? f -Internal -External -Internal	(2 marks)	

	QUESTION THREE [20 MARKS]		
	Bottom numbers that are option to go to the next pages.		
a	Define pagination? How can pagination be implemented? diving documents to different pages b)	(4 marks)	
c)	Outline the components of the CSS box model? -Border -padding -margin	(4 marks)	
-unning run	Describe some of the properties of transitions in CSS3?	(4 marks)	
-delay d) -hover	Explain the use of pseudo-classes in CSS? styling elements in CSS	(4 marks)	
-active e)	What is the use of media queries in CSS3?		
-focus -first child	e) used for applying different styles based on device characteristics like s size orientation	(4 marks) screen	d) HTML
2)	QUESTION FOUR [20 MARKS]		CSS
a)	Explain Z-Index as used in CSS? used in positioning in CSS	(3 marks)	JS SQI
b)	Why are external style sheets preferred?	(3 marks)	e)Cookies
c)	Describe long polling in Web Development?	(3 marks)	-temporary storage -limited
d)	Achieve run time communication between server and client Outline some of the Web Development technologies that you know?	(3 marks)	memory 4kb
e)	Differentiate between cookies and local storage?		-expires -less secure
f)	What is the difference between XHTML and HTML?	(3 marks)	-more accessible
g)		(3 marks)	local storage
	How can styles or classes be changed in elements using JavaScript? -has XML stricter syntax.	(2 marks)	-more storage 5mb
	HTML QUESTION FIVE [20 MARKS]		-no expiration-more secure
a) 1	Vame some Javascript functions used to convert non numerical values in	to numbous	-less accesible
	and the manner can values in		
b) I	ist 3 ways in which Web applications are	(3 marks)	
	ist 3 ways in which Web applications are revolutionary compared to tra	ditional applic (3 marks)	ations.
c)			
	 Canvas: Bitmap-based drawing technology. Allows drawing shapes, lines, and images directly onto a web page Provides a rectangular area on the page for graphics. Great for creating dynamic, interactive graphics like games or data version. Essentially a blank slate for creating various elements. *SVG (Scalable Vector Graphics): Vector-based drawing technology using XML to define graphics. Graphics can be scaled up or down without losing quality. Ideal for creating static graphics like logos or icons. Supports interactivity and animation, but not as well-suited for comp 	visualizations.	ot.

- Best for graphics that need to look sharp at any size.

- **Summary:**
- **Canvas:** Best for dynamic, interactive graphics.
- **SVG:** Best for creating sharp static graphics that are scalable.



d) Write a code to display the window above.

(14 marks.)