## **KASNEB**

## **CICT PART II SECTION 4**

## WEB DESIGN AND e-COMMERCE

## PILOT PAPER

September 2015.

~ Pr			me Anoweu. 5 nours.		
Ansv	ver AL	L questions. Marks allocated to each question are shown at the end of the question.			
QUE (a)		N ONE ain the meaning and the role of the following in web design:			
	(i)	HTML.	(3 marks)		
	(ii)	JavaScript.	(3 marks)		
	(iii)	css.	(3 marks)		
(b)	Expl	ain how the following techniques can be used to speed up loading of web pages:			
	(i)	Image splitting.	(3 marks)		
	(ii)	Caching.	(3 marks)		
	(iii)	Compression of scripts and styles.	(3 marks)		
(c)	Disti	nguish between HTTP and HTTPS.	(2 marks) (Total: 20 marks)		
(iii) Javascript. (3 marks)  (iii) CSS. (3 marks)  (b) Explain how the following techniques can be used to speed up loading of web pages:  (i) Image splitting. (3 marks)  (ii) Caching. (3 marks)  (iii) Compression of scripts and styles. (3 marks)  (c) Distinguish between HTTP and HTTPS. (2 marks)  (Total: 20 marks)  QUESTION TWO  (a) Using code snippets, demonstrate the three types of web page styling. (6 marks)					
(b)		inguish between the following validation techniques as used in web applications:			
	(i)	Client side validation.	(2 marks)		
	(ii)	Server side validation.	(2 marks)		
(c)		g inline scripting, create a web page with a title "show-date", a heading "show date" and a ow the current date and time.	button that can be clicked (10 marks) (Total: 20 marks)		
QUESTION THREE					
(a)	(i)	Distinguish between "motion tweening" and "shape tweening".	(4 marks)		
(h)	(ii)	Describe the acronym AJAX and explain how it is used in web development.	(4 marks)		
(b)	(i)	Describe four ways in which interest found and the mitigated has a second and the mitigated h	(2 marks)		
	(ii)	Describe four ways in which internet fraud could be mitigated by a payment processor.	(8 marks)		
(c)	Exp	lain the term "infrastructure as a service".	(2 marks) (Total: 20 marks)		

Time Allowed: 3 hours.

QUESTION FOUR					
(a) Explain the meaning of the following internet threats, describing how each threat can be prevented:					
	(i)	XSS.	(4 marks)		
	(ii)	CSRF.	(4 marks)		
(b)	Using	g examples, explain the following e-commerce business models:			
	(i)	B2B.	(2 marks)		
	(ii)	G2B.	(2 marks)		
	(iii)	C2B.	(2 marks)		
(c)	Exam	nine one advantage and one disadvantage of each of the following web hosting plans:			
	(i)	Free hosting.	(2 marks)		
	(ii)	Shared (virtual) hosting.	(2 marks)		
	(iii)	Collocated hosting.	(2 marks)		
(iii) Shared (virtual) hosting. (2 marks)  (iii) Collocated hosting. (2 marks)  QUESTION FIVE  The illustration below is a web page extract that shows an invoice:  INVOICE  INVOICE  INVOICE					
		INVOICE			
		Item No. Item. Qty. Price Price Protal			
		VAT			

Required:
(i) Generate HTML to create the form.

(10 marks)

(ii) Illustrate, using suitable JavaScript code, an extract script to multiply the item quantity and the item price, and put the result in the total cells. (10 marks)

Total

(Total: 20 marks)