KASNEB

CICT PART III SECTION 5

MOBILE APPLICATION DEVELOPMENT

THURSDAY: 26 May 2016.	Time Allowed: 3 hours.		
Answer ALL questions. Marks allocated to each question are shown at the end of the question.			
QUESTION ONE (a) Highlight five technical demerits of an iPhone as compared to an Android phone.	(5 marks)		
(b) Mobile application developers face many challenges.			
With reference to the above statement:			
(i) Identify five challenges faced by mobile application developers.	(5 marks)		
(ii) Suggest possible mitigation measures for each of the challenges identified in (b)(i) above	(5 marks)		
(c) Outline five vulnerabilities affecting mobile applications.	(5 marks) (Total: 20 marks)		
QUESTION TWO (a) Distinguish between each of the following pair of terms in the context of mobile application development:			
(i) "Google play" and "Apple app store".	(2 marks)		
(a) Distinguish between each of the following pair of terms in the context of mobile application dev (i) "Google play" and "Apple app store". (ii) "Client based app" and "Web based app".	(2 marks)		
(iii) "Android emulator" and "Android debug bridge".	(2 marks)		
(iv) "Explicit intents" and "implicit intents".	(2 marks)		
(b) Write code using jQuery script to display the following form on the screen of a mobile device:			
Personal Details Full Name Date of Birth Email Physical Address Submit			
	(8 marks)		

Using HTML code, differentiate between "ID selector" and "class selector".

(c)

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(4 marks) (Total: 20 marks)

QUE (a)	STION T The And application	froid software development kit (SDK) includes a variety of tools that assi	st in the development of Androic	
	Required: Explain the function of two types of tools under each of the following categories:			
	(i) V	rirtual device tools.	(4 marks)	
	(ii) D	Development tools.	(4 marks)	
	(iii) B	Build tools.	(4 marks)	
(b)	Discuss f	four key challenges to the testing of mobile applications.	(8 marks) (Total: 20 marks)	
QUE (a)	STION FO Examine	OUR the procedure you would follow to create a single view application that	would run on an iOS simulator (4 marks)	
(b)	Distinguish between the following pairs of terminologies in the context of mobile application development:			
	(i) "I	Linear layout" and "relative layout".	(4 marks)	
	(ii) "i	Native code" and "bytecode".	(4 marks)	
	(iii) "	App store optimization" and "app store rating".	(4 marks)	
		Open handset alliance (OHA)" and "open source development laws (OSDL)".	(4 marks) (Total: 20 marks)	
QUE (a)		Analyse five best practices for ensuring the security of data immobile devices. (10 mar)		
(b)	Describe	Describe six components that provide the building blocks for Android applications. (6 marks)		
(c)	Contrast	between "mobile application management" and "mobile device management"	(Total: 20 marks)	
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