ACSC 475

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FOURTH YEAR FIRST SEMESTER EXAMINATION FOR THE AWARD OF BACHELOR OF SCIENCE APPLIED COMPUTER SCIENCE

ACSC 475: WEB MEDIA TECHNOLOGIES

STREAMS: BSC. APPLIED COM SCI

TIME:2 HOURS

DAY/DATE: THURSDAY 5/12/2019

11.30 A.M – 1.30 P.M

INSTRUCTIONS:

- Answer Question **ONE** and any other **TWO** questions.
- Diagrams should be used whenever they are relevant to support an answer.
- Sketch maps and diagrams may be used whenever they help to illustrate your answer
- Do not write anything on the question paper
- This is a closed book exam, No reference materials are allowed in the examination room
- There will be **No** use of mobile phones or any other unauthorized materials
- Write your answers legibly and use your time wisely

SECTION A

ANSWER ALL THE QUESTIONS IN THIS SECTION

QUESTION ONE [30 MARKS]

- a) List and describe the three categories of hackers. Explain why each of these hackers are of concern in web media technologies [9 Marks]
- b) Identify and explain the five multimedia components [5 Marks]
- c) Describe four instances for which you may want to apply NDAs [4 Marks]

d)	d) List and explain any five reasons why innovation hubs are important in web m			
	technologies	[5 Marks]		
e)	Differentiate between websites and web applications	[4 Marks]		

f) Discuss the impact of software on the state of Arianne 5 [3 Marks]

SECTION B

ANSWER ANY TWO QUESTIONS FROM THIS SECTION

QUESTION TWO [20 MARKS]

a) KENIA is a government initiated institution in Kenya

i.	Explain the role of KENIA	[4 Marks]

ii. Describe any three benefits of KENIA to web media developers [6 Marks]

b) As a Computer Scientist, explain any four approaches you would take to protect your trade secrets.
 [4] Marks]

c) An Organization is considering whether to access their in-house system through wireless network or wired network.

- Advice the Organization why they should consider wired over wireless network
 [3 Marks]
- ii. Advice the Organization why they should consider wireless over wired network [3

Marks]

QUESTION THREE [20 MARKS]

a) A client requires a web media urgently. You must make a choice of the right technologies in order to produce the request in the shortest time possible yet maintain a professional look

	i.	Point out three reasons why you may opt for a development framework from scratch development	rk rather than [6 Marks]	
	ii.	Identify any four PHP development frameworks that you could consider project	der for this [4 Marks]	
b)	Identi	ty theft is something that web media creators should be aware of.		
	i.	Explain what identity theft is	[3 Marks]	
	ii.	Highlight three types of Identity theft	[3 Marks]	
	iii.	Describe any two mechanisms by which identity theft is effected	[4 Marks]	
QI	UESTI	ON FOUR [20 MARKS]		
a)	Expla	in each of the following Intellectual Properties in reference to computer science		
	i.	Patents	[2 Marks]	
	ii.	Copyrights	[2 Marks]	
	iii.	Trade Mark	[2 Marks]	
b)	Backı	ip is very important in web media development:		
	i.	Identify any three reasons why backup is important in web media.	[3 Marks]	
	ii.	Describe the three types of backup	[6 Marks]	
c)	Proce	dures and functions are used a lot in professional software development	t.	
	i.	Differentiate between a procedure and a function	[2 Marks]	
	ii.	Explain why procedures and functions are necessary in software deve Marks]	lopment [3	

QUESTION FIVE [20 MARKS]

Identify three types of malware and describe how each affects web media	[6 Marks]				
Explain why the following are important to web media developers					
i. Web root	[2 Marks]				
ii. Loopback address	[2 Marks]				
iii. Proxy Server	[2 Marks]				
iv. DNS Server	[2 Marks]				
c) Judy is a professional web developer. Judy uses comments a lot while programming.					
i. Highlight any three reasons why Judy uses comments	[3 Marks]				
ii. Assuming Judy is programming using PHP, demonstrate how to d comments in PHP	isplay [3 Marks]				
	 i. Web root ii. Loopback address iii. Proxy Server iv. DNS Server Judy is a professional web developer. Judy uses comments a lot while program i. Highlight any three reasons why Judy uses comments ii. Assuming Judy is programming using PHP, demonstrate how to d 				