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BA/BSc. INFORMATION TECHNOLOGY, FIRST SEMESTER UNIVERSITY EXAMINATIONS 2016/2017 ACADEMIC YEAR

CSIT 311: INFORMATION SECURITY PRINCIPLES

TIME ALLOWED: THREE (3) HOURS

INSTRUCTIONS:

There are Six (6) Questions in ALL. Answer ALL Questions in Your Answer Booklets. Answer Question One (1) And Any Three (3) Questions. Each Question Carries Equal Marks.

Q1. .

- a. The University of Ghana as academic institution deals with a lot of information circulation. What is the Security Policy governing how Information is to be treated in this institution?
- b. State and explain the Information Security Principles that governs how information in Ghana is treated. [10 marks]

Q2.

a. Define the following terms: [6 marks]

i. Policy?

ii. Standards?

iii. Practices?

b. Briefly discuss any four (4) types of Security Policies. [8 marks]

c. State five (5) guidelines for effective policy? [5 marks]

d. State and explain four (4) factors of Risk Assessment? [6 marks]

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Q3.	a.	What is Trusted Computing Base (TCB)?	[5 marks]
	b.	Briefly describe the features of a defensive technology infrastruct	_
	υ.	Briefly describe the features of a defensive technology infrastruct	
		What is the full meaning of ALID?	[5 marks]
	C.	What is the full meaning of AUP?	[1 mark]
		i. Mention four (4) tools that enforce AUP by detecting violations?	
			[7 marks]
	d.	Define Liability Exposure?	[2 marks]
	e.	State five (5) assets that are at risk in liability exposure?	[5 marks]
Q4.			
	a.	What is a computer crime?	[2 marks]
	b.	Explain three ways of preventing spams?	[6 marks]
	c.	Define the following	[4 marks]
		i. Cyber terrorism?	
		ii. Privacy threat?	
	d.	State and explain four (4) common ways in which individuals give away	
		information about themselves that they should be protecting?	[5 marks]
	e.	Describe four (4) technologies that are used to gather information secretly on the	
	C .	web.?	[8 marks]
		web.:	[o marks]
Q5.			
	a.	Define Security Architecture?	[2 marks]
	b.	Illustrate with a diagram the Enterprise Security Architecture?	[7 marks]

a. Define Security Architecture? [2 marks]
b. Illustrate with a diagram the Enterprise Security Architecture? [7 marks]
c. List the six (6) implementation processes of an Information Security management system? [6 marks]
d. What are Secure use Practices?

d. What are Secure-use Practices? [3 marks]

e. State the seven (7) Secure Use Practices?

[7 marks]

Q6.

- a. What is information security? [2 marks]
- b. Discuss four (4) reasons why it is important to study Information security?

[8 marks]

- c. Discuss any four (4) principles of information security?
- [4 marks]

d. Briefly explain the following Security goals;

[3 marks]

- i. Confidentiality?
- ii. Integrity?
- iii. Availability?
- e. Discuss four (4) factors that drive the need for diverse technology layer?

[8 marks]