(30 Marks)

SOUTH EASTERN UNIVERSITY OF SRI LANKA

SECOND EXAMINATION IN BACHELOR OF INFORMATION AND COMMUNICATION TECHNOLOGY - 2017/2018

SEMESTER - II, SEPTEMBER 2020

CIS 22022 - Information Assurance and Forensics

Answ	er all questions.	Time allowed: 02 hours
Quest	ion 01:	
a)	What do you mean by Information Security?	(20 Marks)
b)	List out the <i>critical characteristics</i> of information that needs	to be ensured. (15 Marks)
c)	Differentiate the terms vulnerability and attacks	(25 Marks)
d) A successful organisation should have multiple layers of sec operations. List out and describe those <i>layers of the security</i>		
		(40 Marks) [Total 100 Marks]
Quest	ion 02:	(
a)	Write down three essential functions of <i>Information State</i> organisation	ecurity performs for an
		(20 Marks)
b)	State any five possible information Security threats to organ	izations.
		(25 Marks)
c)	State any five security problems during software development	nt you may face.
		(25 Marks)
d)	Draw the CNSS Security Model of McCumber cube with the	e proper labelling, and

write the required control or safeguard that addresses for any of the cells of this Cube.

Question 03:

a) What do you mean by the *cryptography*?

(20 Marks)

- b) Find out the ciphertext of the original message "SOUTH EASTERN UNIVERSITY OF SRI LANKA" using the following.
 - You should use *Monoalphabetic Substitution* (Type 1) algorithm for this encryption.
 - The Key is: *CIPHERV*

(40 Marks)

c) Give some *international laws* and *legal bodies* which are related with for Information Security.

(20 Marks)

d) What would be the contents of *malicious* codes?

(20 Marks)

[Total 100 Marks]

Question 04:

a) Describe briefly the term "Forensics."

(20 Marks)

b) What are the steps included in investigation triad?

(20 Marks)

c) Discuss the requirements to investigate, and the recommended steps for an "Internet Abuse Investigation."

(40 Marks)

d) What type of security was dominant in the early years of computing?

(20 Marks)

[Total 100 Marks]