North Western University, Khulna

Department of Computer Science and Engineering
Semester Final Examination, Summer-2021
Program: 4 Year B.Sc. in Computer Science and Engineering
4th Year 3rd Semester
Course Title: Information Security & Control
Course Code: CSE-4305

Part-1: Written Assessment

40 out of the Full Marks: 60

Exam date:

25/10/2021

Start Total			
N.B.	i) ii)	Answer any <u>Four</u> questions and submit the answer script through Google Classroom Figures in the right margin indicate full marks	
Q1.	a)	Suppose attack on confidentiality happens, how will you know?	3
	b)	Take three prime integers (p, c, y) as public key from 5 to 17 and compute message signature(s, t) of El Gamal Algorithm.	7
Q2.	a)	In which cryptosystem, two keys are used? Why it is used?	3
	b)	Explain a DES Round with neat diagram	5
Q3.	a)	Differentiate between information security and network security.	3
	b)	If you are given to design a system, how will you ensure the security of the system? What aspects will be in your mind to ensure security?	7
Q4.	a)	Give definitions of	4
		• Cryptosystem	
		 Cryptanalyst 	
		Crypto currency	
		• Cryptology	
	b)	"Upload the file timely" – how will you transform the plain text to cipher text by Ceaser	6
		cipher and transposition cipher?	

Q5. a) How hash function works for integrity and authenticity check? Explain with figure.

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b) Differentiate between security services and security mechanism.

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Part-2: Oral Assessment

Exam date: 20 ou		20 out of the Full Marks	of the Full Marks: 60	
N.B.	The questions are compulsory and the figures in the right margin i	ndicate full marks		
Q1.	You must have to deliver Presentation on the selected topic and sele	submit it through Google	10	
Q2.	Viva-voice to be held on the scheduled date and time.		10	