Question 3

a. Study the scenario below, then answer the questions that follow:

Two different offices on campus are working to straighten out an error in an employee's bank

account due to a direct deposit mistake. Office number 1 emails the correct account and deposit
information to office number 2, which promptly fixes the problem. The employee confirms with
the bank that everything has, indeed, been straightened out.

٠	i. What is wrong here and why?	[4]
	ii. What should office number 1 have done and why?	[4]
b.	With the aid of a simple diagram explain Asymmetric encryption	[5]
c.	What are advantages of using symmetric encryption?	[4]
d	What are the disadvantages of using the asymmetric encryption	[3]

Question 4

estion 4						
a.	What a	re information security controls?	[2]			
ъ.	Explain three types of Information security controls?					
c.	Explain the following terms					
	i.	Phishing	[2]			
	ii.	Malware	[2]			
	iii.	Denial of Service attack	[2]			
	iv.	Ransomware	[2]			

BINDURA UNIVERSITY OF SCIENCEEDUCATION FACULTY OF SCIENCE EDUCATION EDUCATIONAL TECHNOLOGY DEPARTMENT

BACHELOR OF SCIENCE EDUCATION IN COMPUTER SCIENCE

Computer Security

security within a company, firm or organization.

c. List any 4 types of computer attacks.

b. Give typical requirements of a secure distributed system.

CS 412/EDT412

Time 3 hours

Instruction to candidates

Answer all questions, each question carries 20 marks

Question 1

a. What are insider threats in an organization? [2]

b. How can organizations minimize risks associated with inside threats? [8]

c. Describe the goals an ideal password authentication scheme should achieve. [10]

Question 2

a. Describe the model that you studied which is designed for guiding the policies of Information

[12]

[4]

[4]

Question 5

a.	What is the difference between identification and authentication?	[4]	
b.	Explain the following types of identification:		
c.	Describe the two types of DDOs below:		
	i. Direct DDos	[2]	
	ii. Reflector DDos	[2]	
đ	State two advantages of reflector DDos over direct DDos.	[4]	

END OF EXAMINATION