

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESSION 2018/2019

COURSE NAME

FUNDAMENTAL OF INFORMATION

SECURITY

COURSE CODE

BIS 10103

PROGRAMME CODE

BIS

EXAMINATION DATE

JUNE / JULY 2019

DURATION

3 HOURS

INSTRUCTION

ANSWERS ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

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CONFIDENTIAL

ŲI	(a)	System.	
		System.	(8 marks)
	(b)	Outlines TWO (2) advantages of Iris Recognition System.	(4 marks)
	(c)	In your opinion, is Iris Recognition System suitable to be used for confidential records in an organization server? Justify your answer.	accessing (8 marks)
Q2	(a)	States SIX (6) digital information assets for a Custom Department at Internal Airport which also handle central air cargo for South East Asia.	ational (6 marks)
	(b)	Outline FOUR (4) steps of risk analysis for this department.	(4 marks)
	(c)	Propose FIVE (5) information security policies suitable for this department	i. (10 marks)
Q3	(a)	Describe FOUR (4) characteristics of weak password.	(4 marks)
	(b)	Describe FOUR (4) characteristics of strong password.	(4 marks)
	(c)	Propose a suitable multi-factor authentication for ensuring secure transaction online banking.	ons for an
			(12 marks)

- Q4 (a) What is the biggest reason to create and follow an information security policy? (2 marks)
 - (b) Outlines **FOUR** (4) mitigation strategies available for technology person to determine the countermeasures to be presented to the top management of an organization.

(5 marks)

(c) Discuss **FOUR (4)** Malaysian Laws related to information security which can be used by any businesses or organizations to protect their digital assets from various attacks.

(12 marks)

- Q5 (a) Decrypt the following ciphertext: s vyFo wI wEw, wI Nkn kxn wI MKd. (8 marks)
 - (b) Find the encryption key that is used to encrypt the ciphertext in **Q5(a)**. (2 marks)
 - (c) Describe **FOUR (4)** important modules in Advanced Encryption Standard Algorithm (Rijndael). (10 marks)

- END OF QUESTIONS -

