ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT) ORGANISATION OF ISLAMIC COOPERATION (OIC)

Department of Computer Science and Engineering (CSE)

MID SEMESTER EXAMINATION

WINTER SEMESTER, 2018-2019

DURATION: 1 Hour 30 Minutes

FULL MARKS: 75

CSE 4531: E-Commerce and Internet Security

Programmable calculators are not allowed. Do not write anything on the question paper.

There are 4 (four) questions. Answer any 3 (three) of them.

	Figures in the right margin indicate marks.	
1.	Mr. Abid is an entrepreneur and a third-year student of IUT. He noticed that there are many pe who want to buy and sell different items in IUT but they do not have a platform. So he creat website called "iutbuynsell.com" where IUTians can auction or sell items, browse and buy	etc.
Ř.	Mr. Abid wants to make this business profitable so he sketched up a business model. After 6 mo of operating, seeing iutbuynsell become popular, Mr. Ahlan, a student of fourth year decided to the state of the state	d to
	make a similar website called "wantsomething.com". a) What are the unique features of iutbuynsell.com? Describe using examples.	8
	the state of the s	5
	 b) Which B2C business model would Mr. Abid take and why? Explain. c) Describe "Value Proposition", "Revenue Model" and "Competitive Advantage' iutbuynsell.com. 	' of 4×3
2.	a) Iutbuynsell.com has some unpopular or obscure items that do not sell as much as populated items. Which E-Marketing strategy would Mr. Abid use to generate substantial revenue why would this marketing strategy generate revenue?	and
	b) Mr. Ahlan wants to market "wantsomething.com" using search engine marketing but i	t has 10
	created some issues. What are they? Describe in brief.	
	c) What is the difference between data warehouse and data mining?	3
	d) Write short notes on the following:	3×2
	 Lead Generation Marketing 	
	ii. Beacons	
8		tools
3.	Mr. Elon Flusk is an unskilled hacker. He does not have that much experience and relies on developed by Mr. Mark Iceberg, a skilled hacker who has done some malicious and destru activities. Flusk mostly runs different scripts and tools to compromise a system. Flusk is tryi	ictive
	break into IUTs IUSERS system to increase his internet usage limit. a) Which hacker classes do Elon Flusk and Mark Iceberg belong to? Which types of penetr	ration 2+2
	a) Which hacker classes do Elon Flusk and Mark Iceberg belong to? Which types of penelt testing are they most likely to do?	
	b) Which phases Mr. Flusk has to go through in order to hack IUSERS? Describe using IUS	SERS 9
	scenario.	
	c) Write short notes on the following:	2×3
	i. Hacktivist	
	ii. Non-Repudiation	
	iii. Doxing	
	d) Encrypt the sentence "manchester city best club" with Rail Fence cipher of depth 3 iteration method on the result. Did it make it more secure? If yes, then why?	. Use 6

4.	a)	You have been given the key as: HILURIOUS. Draw the Play-Fair table.	3
	b)	Encrypt the following text using the play-fair table in 4(a)	9
		"CSE SXTEEN VERY GOOD"	
	c)	Using the Vigenère Cipher, decrypt the word "PBVWETLXOZR" using the key "leg".	6
	d)	What are the conditions for Kasiskis method to work? Encrypt the word "multivariate" using	7
		the same key in 4(c) with Vigenère autokey system. Write down the Key and Cipher text.	