CSS322 - Quiz 1

Nam	e: ID: Marks: (10)
Fo	or reference, you may use the following mapping of English characters to numbers:
	cdefghijk l m n o p q r s t u v w x y z 2345678910111213141516171819202122232425
Qu	estion 1 [2 marks]
Encry hello.	ypt the first 3 letters of your firstname using the Vigenère cipher with the keyword
•	estion 2 [5 marks]
Fill i	n the blanks.
(a)	In a attack, a malicious user overloads a server or network with traffic.
(b)	is a security service that assures data received are exactly as sent.
(c)	The process of converting an original message into a coded, apparently random message is called
(d)	Consider a One Time Pad that uses octal (base-8) digits, as opposed to English letters. A computer system can decrypt this One Time Pad at a rate of 10 ⁷ messages per second. In theory, the average time to apply a brute force attack on this One Time Pad when a message is 200 characters is

marks]

Question 3 [3 marks]

Consider the ciphertext arsxliaxyiixpaerfsex output from a rows/columns transposition cipher using the key 42135. What is the plaintext?