Name: Information Technology: Risk Mitigation with Data

A	Threats to Data		C Prevention Measures	
Destruction	Data is lost and cannot be recovered	Physical	Protecting against attacks with physical	
Manipulation	Data is changed from its original form			means
Modificatio	n Another way of saying manipulation	Biometric		Reading data about someone's body to
Theft	Data is stolen	protection		verify their identity. Eg fingerprint, retina
Identity the	ft Stolen data is used to impersonate someone			scan, DNA
В	Consequences of Data Loss	Locks		Securing the doors and windows to rooms
Financial	If invoices are lost, income may be lost. If			with data storing machines
loss	personal data is lost, compensation may be paid	CCTV		Security cameras
Time	Loss of data will mean any work done to make	Bolting		Attaching computing equipment to a desk
	the data will have to be done again.	Logical		Protecting against attacks with non-physical
Reputation	A data breach will undermine public confidence			means
пораганон	in the company which is attacked	Access rights	Permissions for different users to be able to	
0	, ,			look at and edit different data
С	Consequences of Disruption	Authen	tication	Making sure a user is the right person by eg
Disruption	When a cyber-security attack interrupts the			username and password
_	normal running of a business	Two-fa	ctor	Authentication which asks for two proofs of
Operationa	·			ID, eg a password and a texted code
	from working	Anti-ma	alware	Software which stops viruses and other
Financial	Money can be lost through loss of customers, compensation claims and the time spent fixing	softwa	re	malware getting into a system
		Encrypt	tion	Data is stored as an incomprehensible code
	the disruption			until it is decrypted with a key
Commercia		Secure backup		A copy of important data, preferably kept
Safety	Disruption of the running of, eg, a power plant		•	away from the original data
	would pose a threat to health of the public			, ,