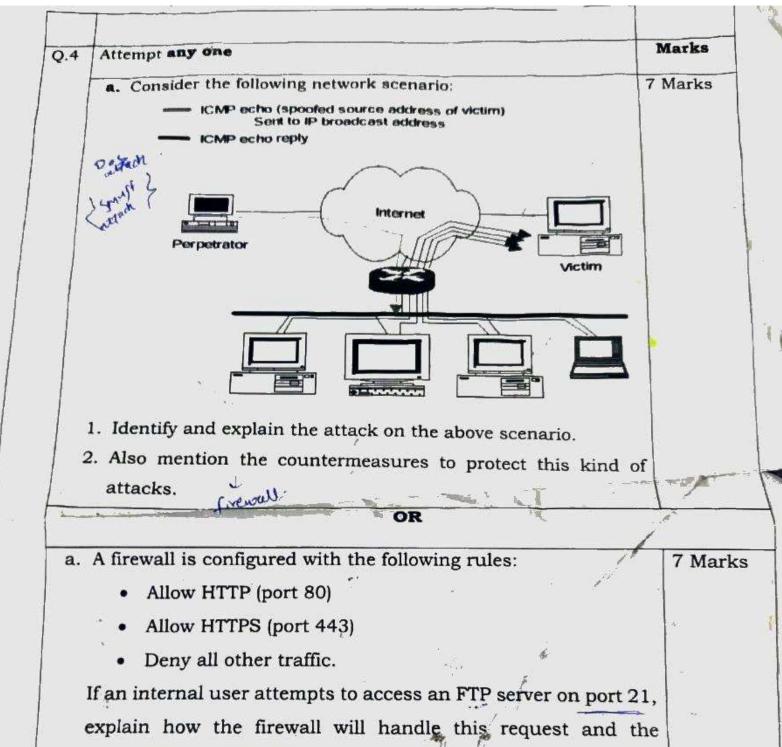


## National Forensics Sciences University, Goa Campus Mid- semester Examination M.Sc. DFIS - Semester -III/ MTech AI&DS 1

Subje Time-	ch - DFIS/AI&DS Sem - III Date- 07/10/2024 cct Name- Network Security & Forensic Subject Code- CTMS - 1.5 Hours Max. Marks- 50 actions - 1) Answer all questions. 2) Assume suitable data.	DFIS SIII P1
Q.1	Attempt all.	20 Marks
Per A	Explain the concepts of Threat, Vulnerability, and Attack Vector with relevant examples.	5 Marks
	*Life is full of joy". DIKIASKYDLTJBOD	5 Marks
	C. Encrypt the following message using Playfair cipher.  Message: microprojectors  Keyword: quasijudicial  Message: microprojectors  Message: micro	MIS
	d. Explain why the order of operations is crucial when performing digital signatures and encryption together.  Discuss the implications of different sequences in which these processes can be executed.	5 Marks
Q.2	Attempt all questions (Q 2(a)- 2 (c)):	15 Marks
	Explain X.800 services with an example.	5 Marks
	b What is the significance of flow control? Why is it important for the security point of view?	5 Marks
duis	c. During an analysis of an IPS (Intrusion Prevention System) log, you find that it detected 50 instances of ARP poisoning attacks over a week. If these attacks are consistent, calculate the average number of ARP poisoning attacks detected per day.	5 Marks
Q. 3	Attempt any two:	8 Marks
	Calculate the multiplicative inverse of 7 under mod 19.	4 Marks
	(ii) 12345699999 mod 123455 a mod mod n = 1  (iii) 12345699999 mod 123455 a mod mod n = 4  56 mod 55 Ang = 1	4 Marks



implications of this configuration for the organization.