



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FOURTH SEMESTER – APRIL 2023

UCA 4604 – CYBER SECURITY

Date: 06-05-2023

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

SECTION A - K1 (CO1)

Answer ALL the Questions

(10 x 1 = 10)

1. Answer the following

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|-------------------------------------|--|
| a) | Define Cyber Crime. |
| b) | State any two good examples for setting up a password. |
| c) | Define Brute force attack. |
| d) | State any two goals of DoS attack. |
| e) | Define Digital forensics. |
| 2. Multiple Choice Questions | |
| a) | Which of the following is a type of cyber-attack?
i) Phishing
ii) SQL Injections
iii) Password Attack
iv) All of these |
| b) | Which of the following is not an example for Password managers?
i) Clipperz
ii) Password Safe
iii) Gorilla
iv) KeePassX |
| c) | Playfair cipher is an example of _____
i) Mono-alphabetic cipher
ii) Poly-alphabetic cipher
iii) Transposition cipher
iv) None of these |
| d) | During a DoS attack, the regular traffic on the target _____ will be either dawdling down or entirely interrupted.
i) network
ii) system
iii) website
iv) router |
| e) | Which of the following applications are Digital Forensics?
i) Financial fraud detection
ii) Child pornography
iii) Civil litigation
iv) All of these |

	SECTION A - K2 (CO1)	
	Answer ALL the Questions	(10 x 1 = 10)
3.	Fill in the blanks	
a)	ARPANET stands for _____.	
b)	_____ is a network security device that monitors and filters incoming and outgoing network traffic.	
c)	_____ can reduce the chance of data leakage.	
d)	The intent of a _____ is to overkill the targeted server's bandwidth and other resources of the target website.	
e)	_____ are used to authenticate electronic records.	
4.	State True or False	
a)	IP addresses are classified into seven categories.	
b)	Passwords need to be kept encrypted to protect from such offline attacks.	
c)	Hill cipher is harder to crack than Playfair cipher.	
d)	A DDoS with 20 to 40 Gbps is enough for totally shutting down the majority network infrastructures.	
e)	The Zero Tolerance Policy is a non-strict way of enforcing rules in a forgiving environment.	
	SECTION B - K3 (CO2)	
	Answer any TWO of the following	(2 x 10 = 20)
5.	Write the reasons for commission of Cyber Crimes.	
6.	Explain the characteristics of Password managers.	
7.	Explain DES and its advantages.	
8.	Write short notes on the investigation of Internet crime.	
	SECTION C – K4 (CO3)	
	Answer any TWO of the following	(2 x 10 = 20)
9.	Illustrate the techniques used in Cyber Security.	
10.	Explain Steganography with any two real time examples.	
11.	Explain Caesar cipher and encrypt the text “praise the lord” using key=5	
12.	Illustrate about six step incident response plan.	
	SECTION D – K5 (CO4)	
	Answer any ONE of the following	(1 x 20 = 20)
13.	Discuss the guidelines for setting a secure password.	
14.	Compare the different encryption techniques with its benefits and limitations.	
	SECTION E – K6 (CO5)	
	Answer any ONE of the following	(1 x 20 = 20)
15.	Describe about the history and types of DoS attacks.	
16.	Write about Contemporary crimes.	

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