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GIET UNIVERSITY, GUNUPUR – 765022

B. Tech (Eight Semester – Regular) Examinations, April – 2024

BOEEC8040 – Cyber Security

(ECE)

Time: 3 hrs

Maximum: 70 Marks

The figures in the right hand margin indicate marks.

PART – A: (Multiple Choice Questions)

(1 x 10 = 10 Marks)

Q.1. Answer **ALL** questions

	[CO#]	[PO#]
a. Which of the items listed below is the least strong security protocol?	CO1	PO1
(i) SFTP		
(ii) SSL		
(iii) SMTP		
(iv) HTTPS		
b. What is used for encrypting data at the network level?	CO1	PO1
(i) IPSec		
(ii) SMTP		
(iii) S/MIME		
(iv) HTTPS		
c. What does PCT stand for?	CO1	PO1
(i) Private Connecting Technology		
(ii) Personal Communication Technology		
(iii) Private Communication Technique		
(iv) Private Communication Technology		
d. What is the purpose of using a proxy server for a hacker?	CO1	PO1
(i) Create a ghost server on the network		
(ii) Create a stronger connection with the target		
(iii) For obtaining remote access		
(iv) Hiding malicious activity on the connection		
e. Determine the kind of symmetric key algorithm that encrypts data using a streaming cypher.	CO1	PO1
(i) Blowfish		
(ii) MD5		
(iii) RC4		
(iv) SHA		
f. A DNS translates a domain name to which of these:	CO1	PO1
(i) Hex		
(ii) IP		
(iii) Binary		
(iv) URL		
g. Choose the one that is autonomous and does not require a host program from the list below	CO1	PO1
(i) Trap door		
(ii) Trojan horse		
(iii) Virus		
(iv) Worm		
h. What does EDR stand for?	CO1	PO1
(i) Endless Detection and Response		
(ii) Endpoint Detection and Response		
(iii) Endpoint Detection and Recovery		
(iv) Endless Detection and Recovery		
i. Malware stands for?	CO1	PO1
(i) Malicious software		
(ii) Multipurpose software		
(iii) Malfunctioned software		
(iv) Multifunctioning Software		
j. What is the CIA triad also known as	CO1	PO1
(i) AIC (Availability, Integrity, Confidentiality).		
(ii) AIN (Availability, Integrity, Non-Repudiation,		
(iii) NIC (Non-Repudiation, Integrity, Confidentiality).		
(iv) ANC (Availability, Confidentiality, Non-Repudiation		

PART – B: (Short Answer Questions)**(2 x 10 = 20 Marks)**Q.2. Answer **ALL** questions

	[CO#]	[PO#]
a. What do you mean by Cyber Space?	CO2	PO1
b. What is Spamming?	CO1	PO1
c. What is meant by cryptography and cryptanalysis?	CO1	PO2
d. What are the different modes of operation in DES?	CO1	PO2
e. Define plaintext and ciphertext.	CO1	PO1
f. What is the difference between a message authentication code and a one-way hash function?	CO1	PO2
g. What are the services provided by IPSec?	CO1	PO2
h. List out the design goals of firewalls.	CO2	PO1
i. Define the terms Virus, Malware, and Ransomware.	CO1	PO1
j. What is a three-way handshake?	CO1	PO2

PART – C: (Long Answer Questions)**(10 x 4 = 40 Marks)**Answer **ALL** questions

	Marks	[CO#]	[PO#]
3. a. What are the steps to set up a firewall?	5	CO2	PO2
b. What are some of the common Cyberattacks?	5	CO2	PO1
(OR)			
c. What is a Brute Force Attack? How can you prevent it?	5	CO2	PO1
d. What are black hat, white hat and grey hat hackers?	5	CO2	PO2
4. a. Explain DDOS attack and how to prevent it?	5	CO2	PO1
b. What is an ARP and how does it work?	5	CO1	PO1
(OR)			
c. Explain Phishing and how to prevent it?	5	CO2	PO1
d. Differentiate the passive attacks and active attack	5	CO2	PO2
5. a. What does XSS stand for? How can it be prevented?	5	CO2	PO1
b. What are the types of Cyber Security?	5	CO2	PO1
(OR)			
c. Differentiate between hashing and encryption.	5	CO2	PO1
d. Differentiate between Symmetric and Asymmetric Encryption.	5	CO2	PO1
6. a. Differentiate between Black Box Testing and White Box Testing.	5	CO2	PO2
b. What do you mean by SQL Injection? How do you prevent it?	5	CO2	PO2
(OR)			
c. Differentiate between HTTP and HTTPS.	5	CO2	PO2
d. Explain the common tools used to secure a standard network?	5	CO2	PO2

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