Gandhi Institute of Engineering and Technology University, Odisha, Gunupur
(GIET University)

B. Tech (Eighth Semester - Regular) Examinations, April – 2025

21BECOE48021 – Cyber Security

(Electronics and Communication Engineering)

Time: 3 hrs   Maximum: 70 Marks

Answer ALL questions
(The figures in the right hand margin indicate marks)

PART – A   (2 x 5 = 10 Marks)

		CO #	Blooms Level
Q.1. Answer *ALL* questions			
a.	What is Cyber Crime?	CO1	K1
b.	Define a Firewall.	CO4	K1
c.	What are Authentication services and methods?	CO4	K1
d.	Define plaintext and ciphertext.	CO2	K1
e.	What is a Digital Signature?	CO2	K1

PART – B   (15 x 4 = 60 Marks)

Answer *all* the questions

		Marks	CO #	Blooms Level
2. a.	Explain the classification of Cybercrimes in detail.	8	CO1	K1
b.	Explain the OSI model and its layers.	7	CO2	K1
	(OR)			
c.	Illustrate Password Sniffing with an example.	8	CO2	K1
d.	Explain E-mail Spoofing with an example.	7	CO2	K1
3.a.	Define Social Engineering and explain the impact of Cybercrime on it.	8	CO2	K2
b.	Explain how to prevent a DDOS attack.	7	CO2	K2
	(OR)			
c.	Differentiate between Symmetric and Asymmetric Encryption.	8	CO2	K3
d.	Explain key security tools and technologies for digital security.	7	CO3	K2
4.a.	What is Wireless Security? Explain its importance.	8	CO3	K2
b.	Explain Web Application Attacks and how to defend against them.	7	CO4	K2
	(OR)			
c.	Differentiate between HTTP and HTTPS.	8	CO2	K3
d.	Explain the steps to set up a firewall.	7	CO2	K2
5.a.	How does Address Resolution Protocol (ARP) work?	8	CO3	K2
b.	What is network security? Explain its importance.	7	CO3	K3
	(OR)			
c.	Describe SQL Injection and how to prevent it.	8	CO4	K2
d.	Explain Black Hat, White Hat, and Grey Hat hackers.	7	CO2	K1

--- End of Paper ---