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



B. Tech (Eighth Semester - Regular) Examinations, April - 2026

**22BECOE48011 – Cyber Security
(ECE)**

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)

Q.1. Answer **ALL** questions

	CO #	Blooms Level
a. What is a DoS attack?	CO2	K1
b. What is the importance of strong passwords?	CO3	K1
c. What is Cryptography and Cryptanalysis?	CO2	K1
d. Define Social Engineering.	CO2	K1
e. What are Authentication services and methods?	CO4	K1

PART – B

(15 x 4 = 60 Marks)

Answer **ALL** the questions

	Marks	CO #	Blooms Level
2. a. Explain Phishing and how to prevent it.	8	CO2	K2
b. What is XSS, and how can it be prevented?	7	CO2	K1
(OR)			
c. Explain different Cyber Attack types and their impact.	8	CO2	K2
d. How does Address Resolution Protocol (ARP) work?	7	CO4	K2
3.a. What strategies should organizations use to manage social media presence?	8	CO3	K2
b. Explain Wireless Security and its importance.	7	CO4	K2
(OR)			
c. How can companies ensure their digital devices are secure?	8	CO4	K2
d. What is the impact of social media on privacy?	7	CO3	K2
4.a. Differentiate between Symmetric and Asymmetric Encryption.	8	CO2	K2
b. What is an IPSec, and what services does it provide?	7	CO2	K1
(OR)			
c. Explain how to prevent a DDOS attack.	8	CO2	K2
d. What is a Digital Signature?	7	CO2	K1
5.a. Explain the steps to set up a firewall.	8	CO4	K2
b. Describe Security Admin principles.	7	CO4	K1
(OR)			
c. What are some tools and technologies used for cyber security?	8	CO4	K1
d. What is meant by 3rd party integration risk?	7	CO2	K1

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