Roll No.											

PRESIDENCY UNIVERSITY

BENGALURU

End - Term Examinations – December 2025

Date: 08-12- 2025 **Time:** 01:00pm – 04:00pm

School: SOCSE	**Program:** B.Tech	
Course Code: CCS2503	**Course Name:** Cyber Security	
Semester: V	**Max Marks**: 100	**Weightage**: 50%

CO - Levels	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**
Marks	**24**	**24**	**26**	**26**	**-**

Instructions:

(i) Read all questions carefully and answer accordingly.
(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks. **10Q x 2M=20M**

1.	List any three types of cybercrimes that target computer networks.	**2 Marks**	**L1**	**CO1**
2.	Define the CIA triad and name its three core principles.	**2 Marks**	**L1**	**CO1**
3.	Identify two types of vulnerabilities that exist in computer systems.	**2 Marks**	**L1**	**CO2**
4.	Name any two types of man-in-the-middle (MitM) attacks.	**2 Marks**	**L1**	**CO2**
5.	State two Android security features that help protect user data.	**2 Marks**	**L1**	**CO3**
6.	Define biometric authentication with an example.	**2 Marks**	**L1**	**CO3**
7.	List any two types of encryption used in mobile devices.	**2 Marks**	**L1**	**CO3**
8.	Define Cyber Ethics in the context of cybersecurity practices.	**2 Marks**	**L1**	**CO4**
9.	Define Electronic Data Processing (EDP) Audit.	**2 Marks**	**L1**	**CO4**
10.	What is meant by Data Protection under modern cybersecurity laws?	**2 Marks**	**L1**	**CO**

Part B

Answer the Questions. **Total Marks 80M**

11.	**a.**	An e-commerce firm's IoT-based sensors are sending abnormal readings. Apply IoT and OT security techniques to protect devices and maintain data integrity.	**20 Marks**	**L3**	**CO1**
		Or			
12.	**a.**	Your company is developing a new cybersecurity training program. Identify how integrating cyber ethics, acceptable use policies, and awareness modules can minimize insider threats.	**20 Marks**	**L3**	**CO1**

13.	**a.**	The IT team suspects DNS spoofing attacks redirecting traffic to malicious sites. Identify how this attack occurs and recommend network-level countermeasures.	**20 Marks**	**L3**	**CO2**
		Or			
14.	**a.**	During an investigation, it was discovered that employees are bypassing firewalls using proxy servers. Apply firewall policy design principles to restrict unauthorized bypass methods.	**20 Marks**	**L3**	**CO2**

15.	**a.**	During a Red Team vs Blue Team exercise, the Red Team performs phishing via malicious mobile apps. Apply mobile threat detection techniques and app security measures to defend against such attacks.	**20 Marks**	**L3**	**CO3**
		Or			
16.	**a.**	A smartphone manufacturing company wants to enhance security in its devices. Analyze the effectiveness of Android vs iOS security models to decide which architecture offers better protection.	**20 Marks**	**L3**	**CO3**

17.	**a.**	A digital evidence analyst is asked to recover data from a suspect's personal phone. Identify how to maintain chain of custody and privacy ethics during forensic evidence collection.	**20 Marks**	**L3**	**CO4**
		Or			
18.	**a.**	A bank's third-party vendor mishandles confidential customer data. Apply vendor compliance policies and data protection laws to propose a corrective strategy.	**20 Marks**	**L3**	**CO4**