PRESIDENCY UNIVERSITY

BENGALURU

End - Term Examinations – MAY 2025

Date: 20-05-2025   **Time:** 09:30 am – 12:30 pm

School: SOCSE	**Program:** B. Tech-CCS
Course Code: CSE2040	**Course Name:** Cyber Threats for IoT and Cloud
Semester: VI	**Max Marks**: 100 **Weightage**: 50%

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	14	14	36	36	-

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.	What is the significance of digitization in IoT?	2 Marks	L1	CO1
2.	List any two benefits of cloud computing.	2 Marks	L1	CO1
3.	What is a social engineering attack?	2 Marks	L1	CO2
4.	Define "Man-in-the-Middle" attack.	2 Marks	L1	CO2
5.	What is a botnet in IoT?	2 Marks	L1	CO3
6.	Name two advanced persistent threats related to IoT.	2 Marks	L1	CO3
7.	What is cloud misconfiguration?	2 Marks	L1	CO4
8.	Define "Insider Threat" in cloud computing.	2 Marks	L1	CO4
9.	What is remote recording in IoT-based threats?	2 Marks	L1	CO3
10.	List two compliance issues in cloud security.	2 Marks	L1	CO4

Part B

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

11.	a.	Explain the cloud computing reference model along with its components.	10 Marks	L2	CO1
Or					
12.	a.	Compare service-oriented and utility-oriented computing.	10 Marks	L2	CO1

13.	a.	Illustrate a response plan for a ransomware outbreak in a university system.	10 Marks	L3	CO2
Or					
14.	a.	Demonstrate a phishing detection module for employee training.	10 Marks	L3	CO2

15.	a.	Explain advanced persistent threats (APTs) in IoT and how they can be detected.	10 Marks	L2	CO3
Or					
16.	a.	Discuss the best practices to manage IoT security threats?	10 Marks	L2	CO3

17.	a.	Demonstrate identity-first security architecture for a cloud-native banking app.	10 Marks	L3	CO4
Or					
18.	a.	Illustrate a zero-trust model to address insider threats in the cloud.	10 Marks	L3	CO4

19.	a.	Determine how botnets formed from smart appliances can affect critical infrastructure.	15 Marks	L3	CO3
	b.	Discuss the impact of DDoS attacks initiated through compromised IoT networks.	5 Marks	L2	CO3
Or					
20.	a.	Examine the risks posed by remote recording capabilities in IoT surveillance systems.	15 Marks	L3	CO3
	b.	Describe the use of social engineering in exploiting IoT-enabled smart cities.	5 Marks	L2	CO3

21.	a.	Identify the lack of visibility in hybrid cloud deployments and how it increases attack surfaces.	15 Marks	L3	CO4
	b.	Discuss the unauthorized use of cloud workloads and suggest enforcement strategies.	5 Marks	L2	CO4
Or					
22.	a.	Illustrate how insecure APIs contributed to a major cloud breach. Reference a real-world case.	15 Marks	L3	CO4
	b.	Explain the significance of compliance frameworks (like ISO 27001, HIPAA, GDPR) in cloud security auditing.	5 Marks	L2	CO4