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Bengaluru

Mid Term Examinations - October 2026

Date: 07/10/2026 **Time:** 09:30 AM - 11:00 AM

Course Code: CCS2502 **Course Name:** Cyber Threats for IoT and Cloud

Semester: Fifth Semester **Max. Marks:** 50 **Weightage:** 50%

CO - Levels	CO1	CO2
Marks	46	44

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	State the purpose of the Gateway and Data Acquisition Layer.	2	CO1	BT1
2	Explain how multicloud uses services from multiple cloud providers.	2	CO1	BT2
3	Describe any two cloud computing platforms.	2	CO1	BT2
4	Describe any two types of MITM attacks.	2	CO2	BT2
5	Describe the role of SIEM in threat detection.	2	CO2	BT2

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	Demonstrate how distributed cloud can be applied when cloud services need to be available across multiple geographic locations.	10	CO1	BT3
7	Demonstrate how edge computing can be applied in an IoT application for quick sensor-data processing, including the role of edge devices, data processing, connectivity, and its benefits.	10	CO1	BT3

PART C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	A software company wants to develop and deploy a web application without purchasing or managing the underlying hardware, servers, and operating systems. The company also wants to build, test, deploy, and manage the application using a cloud-based platform. Identify the most suitable cloud service model and justify your choice.	10	CO1	BT3
9	Apply the four stages of IoT architecture to a smart healthcare application for monitoring patients.	10	CO1	BT3

PART D: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
10	Demonstrate how firewalls, traffic filtering, rate limiting, and continuous monitoring can be applied against a DoS attack.	10	CO2	BT3
11	Demonstrate how the Cyber Defence Matrix can be applied to protect an organization against a network attack.	10	CO2	BT3

PART E: Answer Any 1 Following Questions. 10 M

PTO (Please Turn Over)

Q.N.	Questions	M	CO	BT
12	Demonstrate how HTTPS, VPN, MFA, and secure connections can be applied to protect users from MITM attacks.	10	CO2	BT3
13	Demonstrate how input validation, least privilege, and WAF can be applied to reduce injection attacks.	10	CO2	BT3