Roll No: | | | | | | | | | | | |

PRESIDENCY UNIVERSITY

GAIN MORE KNOWLEDGE
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Presidency University Act, 2013 of the Karnataka Act No. 41 of 2013 | Established under Section 2(f) of UGC Act, 1956
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Bengaluru

Mid Term Examinations - October 2026

Date: 06/10/2026 **Time:** 02:00 PM - 03:30 PM

Course Code: CCS3402 **Course Name:** Identity and Access Management

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

CO - Levels	CO1	CO2
Marks	90	90

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	Differentiate between DAC and MAC access control models.	2	CO1	BT1
2	Define the terms Authentication and Authorization	2	CO1	BT1
3	What is Principle of Least Privilege? List the uses	2	CO2	BT1
4	What is the structure of Active Directory (AD)?	2	CO2	BT1
5	What are the requirements of Authentication Protocol?	2	CO2	BT1

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	Explain how Authentication, Authorization, and Accounting (AAA) is applied in IAM. Derive the relationship among the three components with a suitable real-world example.	10	CO1	BT3
7	A university wants to control access to student records, faculty resources, and administrative systems. Analyze how RBAC can be applied to this scenario.	10	CO1	BT4

PART C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	What is Zero Trust Architecture (ZTA). Discuss its core principles, continuous verification, least-privilege access, micro-segmentation, and continuous monitoring	10	CO1	BT2
9	Illustrate the complete Identity Lifecycle Management process. Discuss identity provisioning, authentication, access modification, de-provisioning, and identity governance with a suitable diagram.	10	CO1	BT2

PART D: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
10	Explain Directory Services in IAM. Discuss the purpose, structure, components, and operations of LDAP (Lightweight Directory Access Protocol) with a suitable directory-tree diagram.	10	CO2	BT2
11	Explain the Kerberos authentication protocol in detail. Describe the roles of the client, Authentication Server (AS), Ticket Granting Server (TGS), and service server with a suitable message-flow diagram.	10	CO2	BT2

PART E: Answer Any 1 Following Questions. 10 M				
Q.N.	**Questions**	**M**	**CO**	**BT**
12	Compare RADIUS and TACACS+ authentication protocols based on their architecture, authentication process, security features, authorization capabilities, and typical applications.	10	CO2	BT4
13	How users, groups, and permissions are created and managed in AWS IAM. Illustrate with a suitable example.	10	CO2	BT3