

**BCA DEGREE END SEMESTER EXAMINATION - MARCH 2026****UGP(HONS.) SEMESTER - IV: (PROFESSIONAL ELECTIVE)****COURSE: – 24UBCADSE201– INTRODUCTION TO CLOUD TECHNOLOGY***(For Regular 2024 Admission)*

Time: 1.5 Hours

Max. Marks: 50

**PART A*****Answer any 5 questions. Each question 2 carries each.***

1. Define the term 'Virtualization' and 'Hypervisor' in cloud computing? (U, CO1)
2. Explain the following terms:
  - a) Vendor lock-in
  - b) Multi- Tenancy (U, CO4)
3. Distinguish between authentication and authorization? (U, CO2)
4. Explain the role of cloud auditor and cloud broker in NIST architecture? (U, CO2)
5. Describe multi-factor authentication? (A, CO4)
6. What is cloud migration? What are the different types of cloud migration? (A, CO)
7. List different type of service offered by Microsoft Azure. (U, CO4)

**(2 x 5 = 10)****PART B*****Answer any 4 questions. Each question carries 5 each.***

8. Explain the attributes of cloud computing that differentiate it from conventional systems? (U, CO1)
9. Describe various cloud security threats? (A, CO3)
10. Analyse enterprise cloud computing paradigm? (A, CO4)
11. Compare public and private cloud environments? (U, CO3)
12. Elaborate on the following:
  - a. Service Level Agreement
  - b. Risk Management (A, CO3)

13. Evaluate the concept of cloud migration. Discuss various approaches for migration into the cloud? (U, CO2)  
(5 x 4 = 20)

**PART C**

**Answer 2 questions. Each question carries 10 marks each.**

14. Explain the NIST definition of cloud computing with a neat diagram and describe the five essential characteristics of cloud computing? (A, CO4)
15. Differentiate between parallel computing and Distributed computing. Discuss the elements and technologies of distributed computing? (A, CO1)
16. Discuss major cloud security threats and threat agents. Explain the role of risk management in cloud security? (A, CO3)

**(10 x 2 = 20)**

CO No.	Expected Course Outcome	CL	Questions	Total Marks
1	Analyse the trade-offs between deploying application in the cloud over traditional IT Infrastructure	A	1, 8, 15	17 Marks
2	Compare the advantages and disadvantages of various cloud computing platforms	A	2, 3, 4, 12, 13	16 Marks
3	Analyse industry platforms, new developments and Deploy application on AWS	A	9, 11, 16	20 Marks
4	Identify security and privacy issues in cloud computing	A	5, 6, 7, 10,14	21 Marks