

Tribhuvan University

Faculty of Humanities & Social Sciences OFFICE OF THE DEAN

2025

Bachelor in Computer Applications

Course Title: Cloud Computing

Code No: CACS 402

Semester: VII

Full Marks: 60

Pass Marks: 24

Time: 3 hours

Candidates are required to answer the questions in their own words as far as possible.

Group B

At	tempt any SIX questions.	$6 \times 5 = 30$
	Explain the key factors that organizations should consider before adopting	[5]
3.	cloud computing. Explain the concept of Cloud design and implementation using Service- Oriented Architecture (SOA). What are the benefits of adopting SOA in Cloud	[3+2]
4.	computing? Explain the benefits of virtualization in cloud computing. How does it improve	[2+3]
5.	resource utilization and reduce operational costs? How does the Map-Reduce model work, and what are its advantages over traditional methods for processing large data sets?	[3+2]
6	Describe the key strategies for ensuring data security in a cloud environment?	[5]
7.	Describe the role of cloud computing in business and consumer applications. How does cloud technology benefit businesses in terms of scalability and cost-	[2+3]
8.	effectiveness? How do cloud computing platforms support scientific applications? Discuss the benefits of using the cloud for high-performance computing (HPC) in	[2+3]
	scientific research.	
	Group C	
À é	*	2×10 = 20]
	ttempt any TWO questions.	
	What is thread? Describe how thread programming is done in cloud. Discuss how virtualization is transforming the IT industry and its significance in cloud	2×10 = 20] [1+4+5]
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