Exam Roll No.....

CSC467-2082 (N)

Tribhuvan University Institute of Science and Technology 2082

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Bachelor Level / Fourth Year / Eighth Semester/ Science Computer Science and Information Technology (CSC467) (Introduction to Cloud Computing) (NEW COURSE)

Full Marks: 60 Pass Marks: 24 Time: 3 hours.

Candidates are required to give their answers in their own words as for as practicable. The figures in the margin indicate full marks.

Section A

Long answer questions

Attempt any TWO questions

- 1. What is cloud? Discuss different types of clouds with their usages? What are the cloud service requirements? [2+6+4]
- 2. What is the significance of virtualization in cloud computing? Discuss the implementation levels of virtualization structures. What are the infrastructure requirements for virtualization?

[2+5+3]

 $(2 \times 10 = 20)$

3. Differentiate task from thread. How the operations like map, shuffle & sort and reduce are executed in map reduce approach for solving problems? Illustrate with example. [3+7]

Section B

Sh	ort	answer Questions		
			$(8 \times 5 =$	40)
		Explain evolution of cloud computing.	(0 0	[5]
	5.	What is SOA? Discuss why adoption of SOA is good while developing cloud app	plications.	[1+4]
	6.	Explain different types of hypervisors.		[5]
	7.	Describe the security architecture design in cloud.		[5]
	8.	Discuss the various security mechanisms that are implemented to secure a cloud.	1 () 12 18 19	[5]
	9.	Differentiate infrastructure as a service from platform as a service with examples	•	[5]
	10.	What is Aneka container? Explain the components of Aneka Framework.		[1+4]
	11.	What is azure shell? Explain about azure monitoring services.		[1+4]
	12.	How cloud platforms are used in business and consumer applications?		[5]