Tribhuvan University Institute of Science and Technology 2081

хф

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			
	Attempt any TWO questions.		
1	Define cloud computing service. Describe each of PaaS, SaaS and IaaS examples.	with suitable [2+8]	
2/.	What is Map Reduce? Using an example, discuss how Map function, Shufflin and Reduce function work in Map Reduce.	ng and sorting [2+8]	
3.	Describe the architecture of Aneka. Discuss how application services, foundation fabric services are organized in Aneka.	on services and	

Section B

Short answer questions.			
Attempt any EIGHT questions.			
Explain the properties of cloud computing	[5]		
What are the challenges while adapting cloud computing environment?	[5]		
6. When do organizations have to adapt hybrid and community cloud deployment n	odels?		
How and why cloud applications are designed using loosely coupled components			
8. Discuss the various types of virtualizations.	[5]		
9. Describe the cloud security threat issues.	[5]		
10. How security monitoring is done in cloud?	[5]		
What are the various security mechanisms adapted to secure cloud environment.			
22. Describe the various scientific applications of cloud computing.	[5]		