

Model Question Paper-1 with effect from 2019-20 (CBCS Scheme)

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Seventh Semester B.E. Degree Examination CLOUD COMPUTING & VIRTUALIZATION

TIME: 03 Hours

Max. Marks: 100

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

Module – 1			
Q.1	(a)	With a neat diagram explain the Cloud computing delivery models and services and list out the major challenges faced by cloud computing	10M
	(b)	Write a note on i) Ethical issues in cloud computing ii) Cloud vulnerabilities iii) Cloud storage diversity and vendor lock-in	10M
OR			
Q.2	(a)	With a neat Sketch, discuss the applications of Cloud computing at Amazon	10M
	(b)	Explain Open-source software platforms for clouds	10M
Module – 2			
Q.3	(a)	Explain the life cycle of workflow and a computer program with a neat diagram Explain the basic workflow patterns in cloud computing.	10M
	(b)	Illustrate the MapReduce programming model along with its features.	10M
OR			
Q.4	(a)	With a neat sketch show how the applications of GrepTheWeb is used in cloud computing	10M
	(b)	Discuss the methods to implement High-performance computing on a cloud?	10M
Module – 3			
Q.5	(a)	Contrast the features of Full virtualization with paravirtualization.	8M
	(b)	Explain Virtual machine monitors with a neat diagram.	8M
	(c)	List out the features of Layering and virtualization?	4M
OR			
Q.6	(a)	Explain CaseStudy: Xen a VMM based paravirtualization	8M
	(b)	Summarize the techniques to compare Performance of virtual machines?	4M
	(c)	Discuss the ways to optimize network virtualization?	8M
Module – 4			
Q.7	(a)	Explain the Policies and mechanisms for resource management.	6M
	(b)	Outline the features of utility-based model for cloud-based Web services.	6M
	(c)	Determine the Stability of a two-level resource allocation architecture.	8M
OR			
Q.8	(a)	Write a note on Resourcing bundling: Combinatorial auctions for cloud resources.	6M
	(b)	Discuss the methods to implement Scheduling algorithms for computing clouds.	7M
	(c)	Explain Scheduling Map Reduce applications subject to deadlines, Resource management and dynamic scaling?	7M
Module – 5			

Q.9	(a)	Write a note on Privacy and privacy impact assessment, Trust, Operating system security.	10M
	(b)	Discuss Virtual machine Security, Security of virtualization, Security risks posed by shared images	10M
OR			
Q.10	(a)	Explain the techniques required to launch an EC2 Linux instance and connect to it.	10M
	(b)	Demonstrate the use of S3 in java and Cloud-based simulation of a distributed trust algorithm.	10M

Table showing the Bloom's Taxonomy Level, Course Outcome and Programme Outcome					
Question		Bloom's Taxonomy Level attached	Course Outcome	Programme Outcome	
Q.1	(a)	L1	CO1	PO1	
	(b)	L2	CO1	PO1	
Q.2	(a)	L2	CO1	PO2	
	(b)	L1	CO1	PO2	
Q.3	(a)	L1	CO1	PO3	
	(b)	L2	CO1	PO3	
Q.4	(a)	L2	CO1	PO3	
	(b)	L2	CO1	PO3	
Q.5	(a)	L2	CO2	PO3	
	(b)	L1	CO2	PO4	
	(c)	L2	CO2	PO4	
Q.6	(a)	L1	CO2	PO5	
	(b)	L2	CO2	PO6	
	(c)	L2	CO2	PO6	
Q.7	(a)	L1	CO2	PO9	
	(b)	L2	CO2	PO12	
	(c)	L2	CO2	PO5	
Q.8	(a)	L2	CO2	PO6	
	(b)	L2	CO2	PO6	
	(c)	L1	CO2	PO9	
Q.9	(a)	L2	CO3	PO9	
	(b)	L2	CO3	PO4	
Q.10	(a)	L2	CO3	PO5	
	(b)	L2	CO3	PO12	
Lower order thinking skills					
Bloom's Taxonomy Levels	Remembering(knowledge): <i>L1</i>		Understanding Comprehension): <i>L2</i>	Applying (Application): <i>L3</i>	
	Higher order thinking skills				
	Analyzing (Analysis): <i>L4</i>		Valuating (Evaluation): <i>L5</i>	Creating (Synthesis): <i>L6</i>	

