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

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## **Seventh Semester B.E. Degree Examination**

## **CLOUD COMPUTING & VIRTUALIZATION**

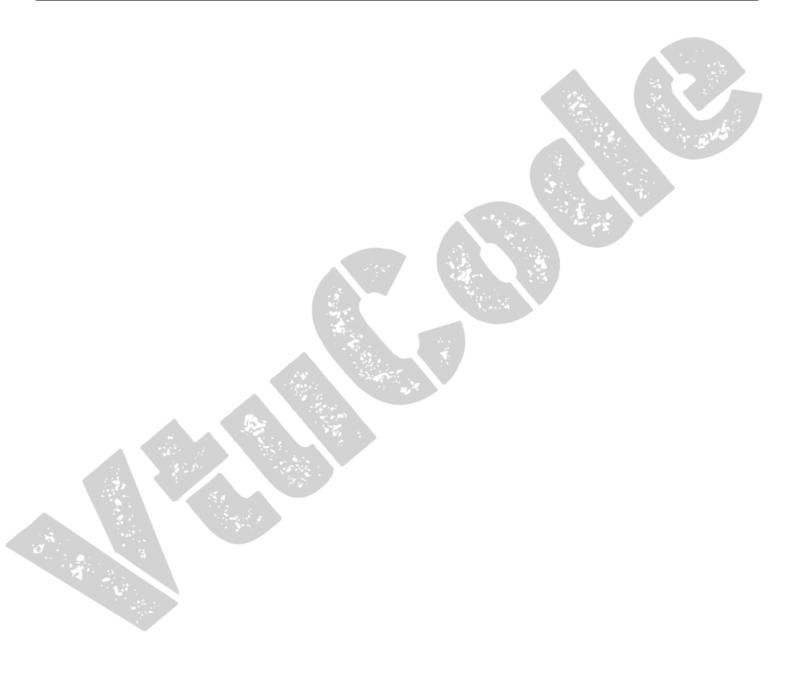
TIME: 03 Hours Max. Marks: 100

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

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

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



Ta	ble sl	nowing the Bloom's Tax	conomy L Outco		ome and Programme
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	Eq.	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):L1	Understanding Comprehension): L <sub>2</sub>		Applying (Application) <i>L</i> <sub>3</sub>
		Higher order thinking skills Analyzing (Analysis): L4 Valuating (Evaluation): L5			
		Analyzing (Analysis): L <sub>4</sub>	v aiuating	g (Evaluation): L5	Creating (Synthesis): Le

