

Model Question Paper-1/2 with effect from 2022(CBCS Scheme)

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Sixth Semester B.E. Degree Examination Subject Title: Cloud Computing and Security

TIME: 03 Hours

Max. Marks: 100

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

Module -1			*Bloom's Taxonomy Level	COs	Marks
Q.01	a	Explain the Platform Evolution of different computer technologies with a neat diagram.	L2	1	10
	b	Outline eight reasons to adapt the cloud for upgraded Internet applications and web services	L2	1	8
	c	Briefly explain Message Passing Interface (MPI)	L2	1	2
OR					
Q.02	a	Summarize VM Primitive Operations with relevant diagram	L2	1	10
	b	Illustrate Various system attacks and network threats to the cyberspace, resulting in 4 types of losses with a neat diagram.	L2	1	10
Module-2					
Q. 03	a	Demonstrate the architecture of a computer system before and after virtualization	L2	2	10
	b	Compare Physical versus Virtual Clusters L2 10	L2	2	10
OR					
Q.04	a	Construct the Live migration process of a VM from one host to another	L3	2	10
	b	Develop a architecture of livewire for Intrusion Detection using a dedicated VM.	L3	2	10

Module-3					
Q. 05	a	Outline six design objectives for cloud computing:	L2	3	6
	b	With a neat diagram, build a cloud ecosystem with a private cloud	L3	3	8
	c	Organize Functional Modules of GAE	L3	3	6
OR					
Q. 06	a	Identify basic requirements for managing the resources of a data center	L3	3	8
	b	Summarize six open challenges in cloud architecture development	L2	3	8
	c	Write a note on AWS	L2	3	4
Module-4					
Q. 07	a	Demonstrate surfaces of attacks in a cloud computing environment with neat diagram	L2	4	8
	b	List out the top cloud security threats of CSA2016	L1	4	6
	c	Select four widely-accepted fair information practices that “Consumer oriented commercial web sites that collect personal identifying information from or about consumers online would be required to comply with.	L3	4	6
OR					
Q. 08	a	Summarize The design goals of Xoar are:	L2	4	6
	b	Explain mobile devices and cloud security	L2	4	6
	c	Model an overview of reputation system design options.8 L3	L3	4	8
Module-5					
Q. 09	a	Outline ImportantCloudPlatformCapabilities	L2	5	10
	b	Organize the steps involved in MapReduce	L3	5	10
OR					
Q. 10	a	Explain with a neat diagram how data flows in running a MapReduce job at various task trackers using the Hadoop library.	L2	5	10
	b	Explain Data mutation sequence in GFS with diagram1	L2	5	10

*Bloom’s Taxonomy Level: Indicate as L1, L2, L3, L4, etc. It is also desirable to indicate the COs and POs to be attained by every bit of questions.