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B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

July 2024 Semester End Main Examinations

Programme: B.E.

Branch: Information Science and Engineering

Course Code: 22IS5PCCLC

Course: Cloud Computing

Semester: V

Duration: 3 hrs.

Max Marks: 100

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

			UNIT - I	CO	PO	Marks
Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.	1	a)	An enterprise application working on traditional database planned to migrate to the cloud. Illustrate the seven steps of migration.	CO1,C O2	PO1	10
		b)	Identify the Infrastructure as a Service [IAAS] providers features with respect to cloud computing.	CO2	PO1	10
OR						
	2	a)	With the paradigm, explain the Convergence of various advances leading to the advent of cloud computing.	CO1,C O2	PO1	07
		b)	List the key challenges of Infrastructure as a Service [IAAS] when building a cloud infrastructure. Identify and explain which software toolkit is responsible for it.	CO1,C O2	PO1	07
		c)	Highlight the concept of High availability of Virtual Machine [VM] with an example.	CO1,C O2	PO1	06
			UNIT - II			
	3	a)	Depict the life cycle of a virtual machine and also explain the steps of provisioning a virtual server	CO2	PO1	10
		b)	Illustrate live migration's mechanism and how memory of a virtual machine states are being transferred, through the network, from one host A to another host B.	CO2	PO1	10
OR						
	4	a)	Differentiate between live migration and cold migration with example. Identify the reasons for migration.	CO2	PO1	10
		b)	Build and explain Web Services-I [WS-I] protocol stack and its related specifications.	CO2	PO1	10

		UNIT - III			
5	a)	Illustrate with a neat diagram, the Uber's application disaggregated into a set of micro services that communicate with each other by considering six microservices.	CO3	PO2	06
	b)	Explain HTTP with respect to micro service. And also identify six basic operations that can be used in HTTP messages.	CO1,2	PO1	08
	c)	Illustrate with a neat diagram, proxy for a service mesh and to use the service how an external entity contacts the proxy.	CO3	PO2	06
UNIT - IV					
6	a)	List and explain the three principles that helps to define security practices in detail with respect to protecting remote access.	CO1		10
	b)	i) How privileged access management provides better security for cloud computing ii) “Security is taken care even in tradition infrastructure”. Provide the ways of security management for the same.	CO1		10
UNIT - V					
7	a)	Caching can be used at multiple levels of the hierarchy, show how it works for data flow in either direction.	CO3	PO2	10
	b)	How does cloud providers attempt to minimize network latency in two different ways?	CO3	PO2	05
	c)	“To serve different applications, edge facilitates various level of hierarchy”. Illustrate with one possible arrangement.	CO3	PO2	05
