Set - II

PRN:		Course Code :	P72PE103

First Year **M. C. A.** Semester End Examination Winter 2024 000388

Cloud Computing

Day and Date: Fri 6 DEC 2024 Max Marks: **50**

Time : 10:30AM To 12:30PM Duration: **02** hrs

Instructions:

1) All questions are compulsory.

Q.1	**Attempt the following.**	Marks	Bloom's Level	CO
a)	……. is a key feature of Distributed Systems. a) Centralized processing b) Independent failures in different nodes c) Single point of failure d) No communication between nodes	01	L1	CO1
b)	Web 2.0 technologies emphasize: a) Read-only content b) User interaction and collaboration c) Cloud-only applications d) Mobile-first development	01	L1	CO1
c)	……..is a key component of Cloud Computing Architecture. a) Clients, Datacenters, and Distributed Servers b) Clients, Virtual Machines, and Servers c) Databases, Switches, and Firewalls d) Routers, Switches, and Firewalls	01	L2	CO2
d)	Example of a PaaS service…… a) Amazon EC2 b) Google App Engine c) Dropbox d) Microsoft Office 365	01	L2	CO2
e)	KVM stand for …….. a) Kernel Virtual Machine b) Kernel Virtual Manager c) Key Virtual Machine d) Kubernetes Virtualization Manager	01	L2	CO3
f)	Virtualization is…… a) Creating physical machines from software b) Creating virtual machines that act like real computers c) Managing physical servers without software d) Partitioning physical hardware into software units	01	L2	CO3
g)	OpenStack supports ……. a) Infrastructure as a Service (IaaS)	01	L3	CO4

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		b) Software as a Service (SaaS) c) Platform as a Service (PaaS) d) All of the above			
	h)	The OpenStack CLI is used to…….. a) Interact with OpenStack services using command-line commands b) Access OpenStack through a graphical user interface c) Deploy OpenStack on multiple servers d) Automate OpenStack upgrades	01	L4	CO4
	i)	OpenStack Heat primarily used for……. a) Orchestrating the deployment of cloud applications b) Managing object storage c) Configuring network routers d) Monitoring compute resources	01	L4	CO5
	j)	Heat orchestration use for: a) Automated management of cloud resources b) Manual deployment of virtual machines c) Writing code directly to manage compute nodes d) Eliminating the need for networking services	01	L3	CO5
Q.2		**Attempt the following.**			
	a)	Explain Web 2.0.with it features.	05	L5	CO1
	b)	Demonstrate Cloud Computing Architecture with diagrammatic representation.	05	L2	CO2
		OR			
	b)	Types of Cloud Computing.	05	L2	CO2
Q.3		**Attempt any two.**			
	a)	Describe Open challenges of Cloud Computing.	05	L3	CO3
	b)	Explain concept of Virtualization using KVM with neat diagram.	05	L5	CO3
	c)	List Pros and Cons of Virtualization.	05	L4	CO3
Q.4		**Attempt any two.**			
	a)	Explain Tenant model operations.	05	L1	CO4
	b)	Define OpenStack? Explain basic OpenStack operations?	05	L1	CO4
	c)	Distinguish between OpenStack CLI and Horizon dashboard?	**05**	L4	CO4
Q.5		**Attempt any two.**			
	a)	Explain Primary Components of Heat Architecture with neat diagram.	05	L5	CO5
	b)	Illustrate Building a production environment.	05	L2	CO5
	c)	Explain Block Storage deployment.	05	L5	CO5

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