


Name:			
Enrolment No:			
UPES End Semester Examination, May 2024			
Course: Cloud computing architecture and deployment models Program: B.Tech CSE (All) Course Code: CSVT3016P		Semester : VI Time : 03 hrs. Max. Marks: 100	
Instructions: All questions are compulsory.			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Give 4 situations in which using PaaS may not be the best option.	4	CO1
Q 2	Name the 3 categories in which SaaS software can be divided. Also, name the 5 main service areas under 'Enabling and management tools as a service'.	4	CO1
Q 3	List and discuss any 4 services provided by Google cloud computing services.	4	CO1
Q 4	Discuss any 4 network level security issues in cloud computing.	4	CO2
Q 5	What is the enabling technology behind cloud computing? Discuss its various types.	1+3	CO2
SECTION B (4Qx10M= 40 Marks)			
Q 6	Draw a detailed diagram of NIST CCRA. How does it differ from IBM CCRA? Also, discuss the 'cloud service management' w.r.t. NIST reference architecture in detail.	3+2+5	CO3
Q 7	What are the three specialized variations of workload distribution architecture? Explain the load balanced virtual server architecture in detail.	3+7	CO3
Q 8	Consider any sample parent resource pool. Create sibling pools and nested pools from the parent resource pool and explain their significance.	10	CO4
Q 9	List and discuss any 5 important features of AWS. Also, discuss the following services of AWS: EC2, S3, and EBS.	5+5	CO4
SECTION-C (2Qx20M=40 Marks)			
Q 10	Discuss the implementation of disaster recovery and fault tolerance policies w.r.t. the traditional computing as well as the cloud computing architecture. Also, discuss the dynamic failure detection and recovery architecture in cloud computing.	10+10	CO4

Q 11	Differentiate between Type-1 and Type-2 hypervisors and discuss which one is more efficient and why? Also, explain the bare metal provisioning architecture with the help of diagrams and explain its important mechanisms.	8+12	CO2
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