

P P SAVANI UNIVERSITY

Seven Semester of B. Tech. Examination

November 2022

SECE4022 Cloud Computing & Applications

21.11.2022, Monday

Time: 10:00 a.m. To 12:30 p.m.

Maximum Marks: 60

Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

SECTION - I

Q - 1	MCQ/Short Question/Fill in the Blanks (Any Five)	[05]	CO	BTL
(i)	Hypervisor is used to create a virtual machine. State True or False.	3	3	4
(ii)	An operating system running on a Type _____ VM is a full virtualization.	3	3	1
(iii)	Define resource pooling.	2	2	1
(iv)	Which of the following is not participate of the cloud? a. Federation b. Trust c. Not - independent d. Isolation	1	1	4
(v)	Define Distributed Computing.	1	1	1
(vi)	EC2 stands for _____.	5	5	1
(vii)	SOAP stands for _____.	4	4	1
Q - 2 (a)	Explain Identity as a Service and Compliance as a Service.	[05]	1	2
Q - 2 (b)	Explain OS level virtualization.	[05]	3	1
OR				
Q - 2 (a)	Explain para virtualization and full virtualization	[05]	3	1
Q - 2 (b)	Explain Cloud deployment model.	[05]	2	1
Q - 3 (a)	Explain cloud stack architecture.	[05]	2	1
Q - 3 (b)	What are the characteristics of cloud computing?	[05]	1	2
OR				
Q - 3 (a)	Why we can use distributed computing instead of centralized computing?	[05]	5	5
Q - 3 (b)	Explain difference between client-server model and cloud computing model.	[05]	9	4
Q - 4	Explain demand-driven and event-driven methods of resource provisioning.	[05]	9	2

SECTION - II

Q - 1	MCQ/Short Question/Fill in the Blanks (Any Five)	[05]		
(i)	Give any two public cloud providers which provides Identity as a service.	1	1	2
(ii)	Unused open ports of systems and network devices are not affecting the cloud security. True/False	2	2	4
(iii)	S3 stands for _____.	7	7	1
(iv)	What is EBS?	8	8	1
(v)	What is machine imaging in cloud computing?	5	5	1
(vi)	EFS stands for _____.	6	6	1

(vii)	Amazon SimpleDB is a _____.	7	1
	a) relational database		
	b) non relational database		
	c) programming model		
	d) file system		
Q - 2 (a)	Explain cloud security Architecture.	[05]	4 1
Q - 2 (b)	Why security in cloud is more challenging? Write about data security in cloud.	[05]	5 4
OR			
Q - 2 (a)	Explain Application security in cloud computing.	[05]	6 1
Q - 2 (b)	Explain Identity Management and Access control.	[05]	7 2
Q - 3 (a)	Explain Cloudwatch and Elastic load balancer service.	[05]	8 1
Q - 3 (b)	Explain the Identity and access management service of AWS.	[05]	8 1
OR			
Q - 3 (a)	Explain the EC2.	[05]	7 1
Q - 3 (b)	Explain various account structures in relation to AWS billing and pricing.	[05]	7 2
Q - 4	Attempt any one.	[05]	
(i)	Explain the various pricing models for AWS.		9 4
(ii)	Explain Disaster Recovery in Clouds		8 4

CO : Course Outcome Number

BTL : Blooms Taxonomy Level

Level of Bloom's Revised Taxonomy in Assessment

1: Remember	2: Understand	3: Apply
4: Analyze	5: Evaluate	6: Create