

Register No : _____

THE KAVERY ENGINEERING COLLEGE
(An Autonomous Institution)

B.E/B.TECH DEGREE END SEMESTER THEORY EXAMINATIONS, NOV /DEC 2024

Sixth Semester

Information Technology

CCS335 – Cloud Computing

Regulations - 2021

Duration : 3 Hrs

Maximum : 100 Marks

PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
1.	What are the different layers available in cloud architecture design?	RE	1	2
2.	Demonstrate the need of private cloud.	UN	1	2
3.	How the data storage is classified in virtual environment?	RE	2	2
4.	Compare binary translation with full virtualization.	AN	2	2
5.	What is network virtualization?	RE	3	2
6.	List the Docker components.	RE	3	2
7.	Enumerate the features of Amazon AWS.	EV	4	2
8.	Identify the key services provided by Microsoft Azure.	AP	4	2
9.	How does hyperjacking attack work?	RE	5	2
10.	State the four principles of data security.	RE	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*13 = 65)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
11.	a Describe service and deployment models of a cloud computing environment with illustrations.	UN	1	13
Or				
	b i Explain about the layered cloud architecture design.	UN	1	8
	ii Summarize about the NIST cloud computing reference architecture.	UN	1	5
12.	a i Explain in detail about the implementation level of virtualization.	UN	2	9
	ii Explain virtualization of I/O devices with an example.	UN	2	4
Or				
	b What is virtualization? Describe para and full virtualization architectures. Compare and contrast them.	UN	2	13

13.	a i	Compare desktop virtualization with application virtualization in terms of use cases and benefits.	UN	3	7
	ii	Outline the concept of network virtualization to improve network efficiency.	AP	3	6
Or					
	b i	Break down the components of Docker and explain their roles in container management.	UN	3	7
	ii	Explain the differences between containers and virtual machines.	UN	3	6
14.	a	Discuss the basic of Google App Engine infrastructure programming model.	CR	4	13
	Or				
	b i	Construct the design of OpenStack Nova system architecture and describe detail about it.	CR	4	8
	ii	Discuss Google App Engine, Amazon AWS, and Microsoft Azure in terms of their features and capabilities.	CR	4	5
15.	a i	Write short notes on guest hopping?	RE	5	8
	ii	What are the challenges of cloud data securities?	RE	5	5
Or					
	b i	Express in detail about the need of IAM.	RE	5	6
	ii	Give the challenges in IAM.	RE	5	7

*PART – C (Marks 1*15 = 15)*

<i>Q.No</i>		<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
16.	a	Evaluate and contrast the merits and demerit of cloud deployment models: public, private, hybrid, community.	EV	1	15
Or					
	b	Discuss about data security risks in cloud? Explain how digital identity can overcome these risks.	EV	5	15