

Semester: January 2025 – April 2025

Maximum Marks: 100 Examination: ESE Examination Duration: 3 Hrs.

Programme code: OI Programme: B.Tech Computer Engineering Institute/School/Department: K. J. Somaiya School of Engineering Course Code: 116U01E629 Name of the Course: Cloud Computing Instructions: 1)Draw neat diagrams 2) All questions are compulsory

3) Assume suitable data wherever necessary

Que. No.	Question	Max.
Q1	Solve any Four	Marks
ď)	Define cloud computing. List any four essential characteristics.	20
ii)	What are the main contributions of S. L. S.	5
	What are the main contributions of Salesforce.com to cloud-based business solutions?	5
iii)	Compare and contrast Xen, VMware in terms of architecture and performance.	
·秘)	Explain different types of cloud depleasement in terms of architecture and performance.	5
W)	Explain different types of cloud deployment models with suitable examples. Write a short note on Google App Engine's sandbox environment.	5
vi)	List and explain two productivity applications	5
	List and explain two productivity applications that use the cloud.	5

Que. No.	Question	Max.
Q2 A	Solve the following	Marks 10
i)	Describe DevOps practices in cloud-based application development and deployment.	5
ii)	Explain any two economic benefits of cloud computing.	5
	OR	
Q2/A	Discuss the structured and non-structured storage solutions provided by Amazon AWS.	10
Q2B	Solve any One	10
ď)	What is a virtualization? Further, State its importance in Cloud Computing. Explain types of Virtualization.	10
ii)	Explain the Cloud Reference Model and the different types of service models.	10

Que. No.	Question	Marks
Q3	Solve any Two	$-\frac{20}{10}$
is	Explain various compute, storage, and communication services provided by AWS.	10
ji)	What are the key features of Google Cloud Platform?	10
iii)	Discuss cloud-based media and gaming applications.	

Que. No.	Question	Max. Marks
Q4	Solve any Two	20
i)	How is cloud used for ECG analysis in healthcare?	10
ii)	Define microservices and explain their advantages	10
iii)	Describe Dockers and Container.	10

Que. No.	Question	Max.
Q5	Short Note (any Four)	Marks
(i)	CRM	20
ii)	ERP	5
iit	SAAS	5
in	Virtualization	5
W	MetaCDN	5
vi)	Federated Clouds	5