

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY-GURUJADA VIZINAGARAM**  
**III B. Tech I Semester Regular Examinations November -2025**  
**CLOUD COMPUTING**  
**(COMPUTER SCIENCE & ENGINEERING(CYBER SECURITY))**

Time: 3 hours

Max. Marks: 70

The Question paper consists of Part A & Part B.

Part A is compulsory, Answer all questions. Part B Answers any one each unit.

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1		PART-A	(20Marks)
	a)	List the three major Cloud Computing Delivery Models.	[2]
	b)	Define Network Centric Content.	[2]
	c)	What is the significance of the Zookeeper in cloud computing applications?	[2]
	d)	Name two Open-Source Software Platforms for cloud infrastructure.	[2]
	e)	Differentiate between Full Virtualization and Para-virtualization.	[2]
	f)	What is the purpose of a Holdout method in classification model evaluation?	[2]
	g)	State the primary function of the Google File System (GFS).	[2]
	h)	What is Privacy Impact Assessment (PIA) in the context of cloud security?	[2]
	i)	List two types of Amazon Web Services EC2 instances	[2]
	j)	What is Google Web Toolkit (GWT) used for?	[2]
		PART-B	(50Marks)
		Unit - I	
2	a)	Elaborate on the different Cloud Computing Delivery Models and Services.	[5]
	b)	Discuss the Major Challenges for Cloud Computing and the associated Ethical Issues.	[5]
		(OR)	
3	a)	Explain the fundamental concepts of Distributed Systems.	[5]
	b)	Describe the concepts of Logical Clocks and Message Delivery Rules in distributed systems.	[5]
		Unit - II	
4	a)	Provide a detailed overview of the Cloud Infrastructure at Amazon and Microsoft Windows Azure.	[5]
	b)	Explain the Map Reduce Program model.	[5]
		(OR)	
5	a)	Discuss the energy use and ecological impact of cloud computing.	[5]
	b)	Describe the various Architectural Styles and Workflows associated with cloud computing.	[5]
		Unit - III	
6	a)	Explain the concept of Virtualization in cloud resources.	[5]
	b)	Discuss Cloud Resource Management and Scheduling.	[5]
		(OR)	
7	a)	Describe the Case Study: Xen to illustrate the use of a virtual machine monitor.	[5]
	b)	Explain the different scheduling algorithms in the cloud.	[5]
		Unit - IV	
8	a)	Explain the Evolution of Storage Technology and the various storage models used in cloud computing.	[5]
	b)	Write notes on Apache Hadoop and Big Table as key storage systems in the cloud environment.	[5]

		(OR)	
9	a)	Detail the various Cloud Security Risks that users are concerned about.	[5]
	b)	Explain the concepts of OS Security and Virtual Machine Security in the context of cloud environments.	[5]
		Unit - V	
10	a)	Describe the process of launching EC2 instances on Amazon Web Services (AWS).	[5]
	b)	Explain the key services provided by the Microsoft Azure Services Platform.	[5]
		(OR)	
11	a)	Discuss the components and purpose of the Google App Engine for cloud application development.	[5]
	b)	How is the Amazon Simple Storage Service (S3) used in Java for cloud application development?	[5]

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