



# MALLA REDDY ENGINEERING COLLEGE FOR WOMEN

## Autonomous Institution-UGC, Govt. of India

Accredited by NAAC with 'A+' Grade, UGC, Govt. of India | Programmes Accredited by NBA

National Ranking by NIRF Innovation-Rank band(20-300),MHRD,Govt. of India

Approved by AICTE, Affiliated to JNTUH,ISO 9001-2015 Certified Institution

DEPARTMENT: CSE - DS	COURSE: III B.TECH II SEM	SUBJECT: CC
	R22 REGULATION	2025-2026

### ASSIGNMENT SHEET-1

#### SET-1

Sno	Question	CO	PO	BTL
1	Differentiate between <b>Distributed Computing</b> and <b>Parallel Computing</b> .	CO1	PO1	4
2	Explain <b>High-Performance Computing</b> with architecture and applications.	CO1	PO1	2
3	Describe the <b>five essential characteristics of Cloud Computing</b> in detail.	CO2	PO1	2
4	Explain the <b>four cloud deployment models</b> with suitable use cases.	CO2	PO2	3
5	Explain <b>Network Connectivity in Cloud Computing</b> .	CO3	PO1	2

#### SET-2

Sno	Question	CO	PO	BTL
1	Explain the <b>four cloud deployment models</b> with suitable use cases.	CO2	PO2	3
2	Compare <b>traditional computing</b> and <b>cloud computing</b> .	CO2	PO1	4
3	Explain <b>Cluster Computing</b> and <b>Grid Computing</b> . Highlight their differences.	CO1	PO1	4
4	Describe <b>Optical Computing</b> and <b>Nano Computing</b> with potential applications.	CO1	PO1	2

5	Access a simple blog application using the MVC architecture. Describe how you would separate the Model, View, and Controller in this context.	CO3	PO3	3
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### SET-3

Sno	Question	CO	PO	BTL
1	Compare <b>cluster computing</b> and <b>grid computing</b> in terms of scalability.	CO1	PO2	4
2	Analyze the differences between <b>HPC and Cloud Computing</b> .	CO1	PO1	4
3	Explain <b>public, private, community, and hybrid cloud models</b> .	CO2	PO1	2
4	A startup wants to deploy a web application with minimum cost. Which cloud model and service would you recommend? Justify.	CO2	PO2	5
5	Describe the deployment of a <b>three-tier web application</b> in the cloud.	CO3	PO3	3

### SET-4

Sno	Question	CO	PO	BTL
1	Explain why <b>quantum computing</b> is not yet widely commercialized.	CO1	PO1	5
2	Analyze the impact of <b>nano computing</b> on future hardware design.	CO1	PO2	4
3	Explain how cloud computing supports <b>big data analytics</b> .	CO2	PO1	3
4	Analyze the role of cloud computing in <b>e-governance</b> .	CO2	PO2	4
5	How does cloud management ensure <b>performance optimization</b> ?	CO3	PO3	3

### SET-5

Sno	Question	CO	PO	BTL
1	Why is <b>bio computing</b> suitable for complex biological problems?	CO1	PO1	4
2	How does mobile computing support <b>real-time applications</b> ?	CO1	PO1	3
3	Discuss the <b>motivating factors</b> for cloud adoption.	CO2	PO2	4
4	Describe the <b>benefits and risks of cloud computing</b> .	CO2	PO2	4
5	Explain the use of <b>containers VS virtual machines</b> .	CO3	PO1, PO3	4

**SET-6**

<b>Sno</b>	<b>Question</b>	<b>CO</b>	<b>PO</b>	<b>BTL</b>
1	Explain why <b>quantum computing</b> is not yet widely commercialized.	CO1	PO1	5
2	Discuss the role of <b>network latency</b> in distributed systems.	CO1	PO2	4
3	Analyze the role of cloud computing in <b>e-governance</b> .	CO2	PO2	4
4	How does <b>elasticity</b> help in handling peak workloads?	CO2	PO1	3
5	Explain how <b>load balancing and auto-scaling</b> work together.	CO3	PO3	3

Signature of Faculty:

Signature of HOD: