QP Code: SN23BTECH227 | Reg. No | | | | | | | | | | | AY 23

Gandhi Institute of Engineering and Technology University, Odisha, Gunupur (GIET University)

B. Tech(Fifth Semester - Regular) Examinations, November 2025

23BCSPE35011 – Cloud Computing

(CSE)

Time: 3 hrs | Maximum: 60 Marks

Answer ALL questions

(The figures in the right hand margin indicate marks)

PART – A **(2 x 5 = 10 Marks)**

Q.1. Answer ***ALL*** questions

		CO #	Blooms Level
a.	Differentiate between Type-1 and Type-2 hypervisors.	CO1	K1
b.	What is Privacy Design in Cloud Computing.	CO2	K2
c.	What is Storage as a Service (STaaS)?	CO3	K3
d.	Mention the main components of the Aneka SDK.	CO4	K1
e.	What are the main services provided by Microsoft Azure?	CO5	K2

PART – B **(10 x 5=50 Marks)**

Answer ***ALL*** the questions

		Marks	CO #	Bloom s Level
2. a.	Explain how "A Closer Look at Cloud Computing" helps in understanding its layered architecture?	5	CO1	K1
b.	Write short notes on Virtual Clusters and Resource Management?	5	CO1	K3
	(OR)			
c.	Discuss in detail the Cloud Computing Reference Model with a neat diagram?	5	CO1	K2
d.	Explain the concept of virtualization and its importance in Cloud Computing?	5	CO1	K2
3.a.	Discuss the different service models (IaaS, PaaS, SaaS) of Cloud Computing with examples?	5	CO2	K3
b.	What is Machine Image Design? Explain the steps involved in creating and managing machine images?	5	CO2	K1
	(OR)			
c.	Explain the types of Clouds: Public, Private, Hybrid, and Community Clouds?	5	CO2	K2
d.	Explain the importance of Data Security and methods to ensure data protection in Cloud Computing?	5	CO2	K1
4.a.	Describe the Disaster Recovery Planning (DRP) process and its essential components?	5	CO3	K3
b.	Differentiate between vertical and horizontal scaling with examples?	5	CO3	K2
	(OR)			
c.	Compare and contrast Database as a Service and Information as a Service?	5	CO3	K2
d.	Discuss Integration as a Service (IaaS) and its importance in connecting cloud and on-premise applications?	5	CO3	K3
5.a.	Explain the Aneka Cloud Platform Framework with its key components?	5	CO4	K2
b.	Explain Infrastructure Organization and Logical Organization in Aneka Cloud deployment?	5	CO4	K3
	(OR)			

c.	Discuss Fabric, Foundation, and Application Services in Aneka with examples?	5	CO4	K2
d.	Explain the process of deploying and managing applications on Aneka Cloud?	5	CO4	K3
6.a.	Explain Multiplayer Online Gaming using cloud architecture and its benefits?	5	CO5	K2
b.	Explain the architecture and services of Amazon Web Services (AWS)?	5	CO5	K2
	(OR)			
c.	Compare Google App Engine and Amazon Web Services in terms of flexibility, scalability, and pricing?	5	CO5	K2
d.	Discuss how Microsoft Azure supports PaaS and IaaS models?	5	CO5	K3

--- End of Paper ---