

Subject

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Code:-

Subject:-

CLOUD COMPUTING

Roll No:-

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TECNIA INSTITUTE OF ADVANCED STUDIES

BCA

Class Test (2025-26)

Sem: 5th

Set-2

Date:

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Time: -1:00 Hour

Max. Marks: 30

General Instructions:

- All Questions are compulsory. Answers should be brief and to the point.
- It comprises three sections, A, B, and C. you are to attempt all the sections.
- **Section A** – Question No -1 is Very Short Answers type carrying 2 marks each. You are required to answer ALL.
- **Section B**- Question No-3 is Short Answers type question carrying 5 marks each. You are required to attempt any TWO out of THREE questions given.
- **Section C**- Question No -4 is Long Answer type question carrying 10 marks each. You need to attempt anyone.
- Students are instructed to cross the blank sheets before handing over the answer sheet to the invigilator.
- No sheet should be left blank. Any written material after a blank sheet will not be evaluated /checked.

		CO	BT	M
	SECTION –A			(5*2=10)
1.	Attempt <u>All</u> of the following.			
	a. What are the key differences between cloud computing and distributed computing?	CO1	L2	
	b. Explain the concept of on-demand self-service in cloud computing.	CO1	L1	
	c. Define cloud bursting.	CO2	L1	
	d. How does a multi-tenant architecture work?	CO2	L2	
	e. What is a hypervisor? Give one example.	CO3	L1	
	SECTION –B			
2.	Answer any <u>Two</u> of the following.			(2*5=10)
	a. Discuss the essential characteristics of cloud computing as defined by NIST. Explain how each characteristic contributes to the benefits of cloud adoption.	CO1	L1	
	b. Describe the various cloud service models (IaaS, PaaS, SaaS) in detail. Provide a real-world example for each and explain its key features.	CO2	L2	
	c. Explain the architecture of a typical cloud data centre. What are the key components, and how do they function together to provide cloud services?	CO3	L3	
	SECTION –C			
3.	Answer any <u>One</u> of the following.			1*10=10)
	a. Explain the concept of virtualization and its role as a key technology in enabling cloud computing. Discuss the different types of virtualization techniques.	CO3	L2	
	b. What are the major components of a cloud infrastructure? Explain the	CO2	L2	

		functions of each component in providing a seamless cloud experience.			
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