

## PES University, Bengaluru

(Established under Karnataka Act 16 of 2013)

## **END SEMESTER ASSESSMENT (ESA) - May 2023**

## **UE18CS352 - Cloud Computing**

I.a. Describe with the help of examples the various service models and	
	(7.0 Marks)

1.b. Explain any five Characteristics of Cloud Computing.

(5.0 Marks)

**Total Marks: 100.0** 

1.c. Explain in detail Cloud Architecture with diagram.

(8.0 Marks)

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2.a. Explain in detail Bare Metal virtualization and Host based virtualization diagram.	ation with a (10.0 Marks)
2.b. Explain why DevOps is Needed? How is DevOps different from transoftware development and Operations process?	ditional (6.0 Marks)
2.c. Write the difference between virtual machine and Docker contained	er? (4.0 Marks)
3.a. Explain GlusterFS file system architecture with a neat diagram	(8.0 Marks)

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3.b. Explain Leader based replication technique.	(5.0 Marks)
3.c. (i)Explain Linearizability with compare-and-set operation. (ii)Explain 3 desirable properties of the CAP theorem	(7.0 Marks)
4.a. Explain briefly Bully Algorithm and Modified Ring election.	(10.0 Marks)
4.b. What are the types of failure in designer perspective?	(5.0 Marks)

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1/9/23, 4:03 PM	ESA - MAY 2023 - UE18CS352 (set-	1)
4.c. What is failov	ver? Explain the two types of architecture to	perform failover. (5.0 Marks)
5.a. Explain rever	se proxy and forward proxy.	(10.0 Marks)
5.b. What is the n Requirements.	need of cloud security? Explain Physical and	l Virtual Cloud Security (10.0 Marks)

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