Reg.No. | | | | | | |

Bansilal Ramnath Agarwal Charitable Trust's
VISHWAKARMA INSTITUTE OF TECHNOLOGY, PUNE – 411037.
(An Autonomous Institute Affiliated to Savitribai Phule Pune University)

Examination: ESE

Year: TY   **Branch: IT**

Subject: Cloud Computing   **Subject Code: IT3229**

Max. Marks: 60   **Total Pages of Question Paper: 1**

Day & Date: Wednesday, 13/11/2024   **Time: 11 AM to 1 PM**

Instructions to Candidate
1. All questions are compulsory.
2. Neat diagrams must be drawn wherever necessary.
3. Figures to the right indicate full marks.

Q. N.	CO No	BT* No		Max marks
Q. 1.	1	2	a) Describe important properties of Cloud Computing?	4
		2	b) Explain different deployment models of cloud?	6
			OR	
		2	c) What is cloud federation? What are the benefits of federated cloud?	6
		2	a) Explain different types of virtualization with examples?	4
Q. 2.	2	4	b) Examine different cloud-enabling technologies? Explain the concept of Data Centre Technology?	6
Q. 3.	3	3	a) Demonstrate common standards supported by open cloud Consortium.	6
		2	b) Explain the architecture of Google App Engine with neat diagram.	4
		2	a) Describe Google file system architecture with neat diagram.	4
Q. 4.	4	3	b) Interpret different types of disasters and how the disaster recovery is done on cloud platform?	6
			OR	
		3	c) Interpret various Cloud Computing Security Controls with an example?	6
Q. 5.	5	2	a) Explain applications of the Internet of Things used in Retailing and Supply-Chain Management.	6
		2	b) Draw architecture of RFID along with an application.	4
Q. 6.	6	2	a) Explain the Docker architecture with neat diagram.	5
		2	b) Describe the Benefits of Mobile Cloud Computing. How it is different than cloud computing	5

CO Statements:
CO1: Articulate the main concepts, key technologies and fundamentals of cloud computing
CO2: Understand cloud enabling technologies and virtualization
CO3: Analyze various cloud programming models and apply them to solve problems on the cloud
CO4: Explain data storage and major security issues in the cloud
CO5: Understand trends in ubiquitous cloud and internet of things
CO6: Explore future trends of cloud computing

*Blooms Taxonomy (BT) Level No:
- Remembering; 2. Understanding; 3. Applying; 4. Analyzing; 5. Evaluating; 6. Creating