

PRN No.	
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PAPER CODE	UB25-2103 (ESE)
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(AY:2024-25) May 2025 (ENDSEM) EXAM
TY SEMESTER - II

COURSE NAME: Cloud Computing**Branch: I.T****COURSE CODE:ITUA32203****(T.Y PATTERN 2020)****Time: [1Hr 30 Min]****[Max. Marks: 40]**

(*) Instructions to candidates:

- 1) **Figures to the right indicate full marks. Use of scientific calculator is allowed**
- 2) **Use suitable data wherever required**
- 3) **All questions are compulsory. Solve any two sub question each from Questions 1 , 2 ,3 and 4**

Q. No.	Question Description	Max. Marks	CO mapped	BT Level
Q.1	a) Explain how Service-Oriented Architecture (SOA) supports SaaS solutions.	[5]	1	2
	b) What are the key benefits of Platform as a Service (PaaS) solutions in comparison to traditional infrastructure or other cloud service models?	[5]	1	2
	c) Apply the concept of load balancing in IaaS to solve performance issues in a web application.	[5]	1	3
Q2	a) Explain the process of creating an Amazon S3 bucket using the AWS Management Console.	[5]	2	2
	b) Differentiate the various storage tiers available in Amazon S3.	[5]	2	3
	c) Explain the purpose of IAM policies in controlling access to AWS services.	[5]	2	2
Q3	a) Demonstrate how a hypervisor interacts with hardware at different levels of virtualization.	[5]	3	2
	b) Examine the challenges in virtualizing I/O devices and propose possible solutions.	[5]	3	2
	c) Describe how VirtualBox differs from VMware in terms of performance and features.	[5]	3	3

Q4	a) Compare traditional application deployment methods with container-based deployment.	[5]	4	2
	b) Demonstrate how to deploy a web application using Docker.	[5]	4	2
	c) Compare Kubernetes with Docker Swarm in terms of functionality and use cases.	[5]	4	2

Note: [BT level- 1: Remember 2: Understand 3: Apply 4: Analyze 5: Evaluate 6: Create]