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Program:	**T.Y.B.Sc IT**	**Semester:**	**V**	**Program Code:**	**UGIT01**
Course:	**Cloud Computing**			**Course Code:**	**NUIT504**

Duration: 1 Hour **Examination Pattern:** NEP-Autonomous- External **Max. Marks:** 30

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Draw neat diagrams wherever necessary.
4. CO (Course Outcome), KL (Knowledge Level).

Examination:

REGULAR

Q. 1		**Attempt any THREE of the following.**	[15]	CO's	KL's
	(a)	Explain the different types of Cloud Computing: Public Cloud, Private Cloud, Community Cloud, and Hybrid Cloud.		CO1	L2
	(b)	Explain the Cloud Service PaaS, and SaaS and with examples.		CO2	L2
	(c)	Describe the architecture of Virtualization and its working mechanism.		CO3	L2
	(d)	Write a detailed note on the Types of Hypervisors, explaining their architecture.		CO3	L2
	(e)	A company wants to deploy its application with changing workloads and requires scalability, cost efficiency, and high availability. Apply your knowledge of cloud deployment and virtualization to recommend a suitable cloud solution and justify your choice.		CO5	L4
Q. 2		**Attempt any THREE of the following.**	[15]	CO's	KL's
	(a)	Explain Kubernetes with its features, advantages, and need.		CO4	L2
	(b)	Write a detailed note on Docker, explaining its architecture and working.		CO3	L2
	(c)	Differentiate between a Virtual Machine and a Container.		CO3	L4
	(d)	Define a Docker Image and a Docker Container.		CO3	L1
	(e)	Describe the concept of Containerization in detail, including its working and applications.		CO3	L2

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