UNIT II: CLOUD DEPLOYMENT, SERVICE MODELS & TECHNOLOGICAL DRIVERS

Short Questions

S.No	Questions	BT	CO	PO
1	What are the 5 Essential Characteristics of cloud computing?	L1	CO2	PO1
2	State the primary deployment models in cloud computing.	L1	CO2	PO1
3	Name the three standard cloud service delivery models.	L1	CO2	PO1
4	Define the concept of Service Oriented Architecture (SOA).	L1	CO2	PO1
5	What is the role of Multicore Technology in driving cloud infrastructure?	L2	CO2	PO1
6	Differentiate between Web 2.0 and Web 3.0 in the context of cloud application environments.	L2	CO2	PO2
7	What is Pervasive Computing?	L1	CO2	PO1
8	Define the "pay-per-use" or "pay-as-you-go" pricing model.	L1	CO2	PO1
9	What is a hybrid cloud and when is it preferred?	L2	CO2	PO2
10	What are the specific requirements of services in the IaaS category?	L2	CO2	PO1

Long Questions

S.No	Questions	BT	CO	PO
11	**a)** Explain the motivation, technical needs, and direct business benefits of adopting cloud computing.	L2	CO2	PO1
	b) Explain how cloud computing acts simultaneously as a service model and a computing platform.	L2	CO2	PO1
12	**a)** Describe the standard NIST Cloud Reference Architecture using a clean, layered schematic block diagram.	L2	CO2	PO1
	b) Explain the 4 cloud deployment models in detail, highlighting their suitability and access levels.	L2	CO2	PO1
13	**a)** Explain the 3 different cloud service models (IaaS, PaaS, SaaS) with clear cloud-native examples.	L2	CO2	PO1
	b) Discuss how Service Oriented Architecture (SOA) acts as a foundational pillar for enabling cloud services.	L2	CO2	PO1
14	**a)** Elaborate on the role of Multicore Technology and modern Operating System advances in facilitating underlying hardware virtualization.	L2	CO2	PO1
	b) Evaluate how Web 3.0 technologies and Pervasive Computing alter consumer interaction with modern cloud application environments.	L4	CO2	PO2
15	**a)** Contrast public, private, and community clouds across cost, administrative overhead, and security profiles.	L4	CO2	PO2
	b) Explain the architectural requirements, resource constraints, and boundaries for delivering scalable cloud services.	L2	CO2	PO1