School of Computing Science and Engineering

B.TECH CSE Cloud Computing and Virtualization
Semester End Examination - Jul 2024

Duration : 180 Minutes
Max Marks : 100

Sem V - E2UF501B - Cloud Deployment Model

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1)	Demonstrate the interportability of virtual cloud?	K1(2)
2)	Demonstrate how can you implement standardization in private cloud deployment keeping the key considerations in parallel?	K2(4)
3)	Identify the limitations or challenges associated with implementing a private cloud deployment model.	K2(6)
4)	How does data encryption enhance security in the cloud? Identify.	K3(9)
5)	Suppose you have a Virtual Machine running Windows Server, and you want to deploy a line-of-business application that requires specific software prerequisites. Develop a strategy to automate the installation of these prerequisites during VM provisioning?	K3(9)
6)	Summarize the key considerations and steps involved in selecting a cloud vendor for an effective disaster recovery plan, emphasizing the factors that organizations should prioritize when evaluating cloud providers for disaster recovery purposes.	K5(10)
7)	A company is considering implementing virtualization in its data center. What role does a hypervisor play in virtualization, and provide examples of popular hypervisor solutions.	K4(12)
8)	Demonstrate how can you prepare an instance to serve traffic by configuring it with the application and its dependencies?	K5(15)
9)	Identify the motivations behind organizations choosing to adopt a public cloud model, considering factors such as agility, scalability, and cost efficiency. Assess the significance of these motivations and their impact on organizational decision-making.	K5(15)
10)	Develop a numeric model to compare between a Hybrid Cloud solution and a purely Public Cloud approach for a large retail chain. Include factors like data transfer costs and storage expenses.	K6(18)