


Name:			
Enrolment No:			
UPES End Semester Examination, Dec 2024			
Course: Cloud Computing Program: B.Tech CSE+DevOps Course Code: CSVT3023		Semester : V Time : 03 hrs. Max. Marks: 100	
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Write 4 characteristics of an optimal IT infrastructure.	4	CO1
Q 2	Mention 4 factors responsible for the increased popularity of Virtualization.	4	CO2
Q 3	Draw a neat diagram of the virtualization reference model and list 3 major components of a virtualized environment.	4	CO3
Q 4	Give 4 differences between virtualization and cloud.	4	CO4
Q 5	Define the term 'cloud migration'. Mention 4 benefits of migrating to the cloud.	2+2	CO5
SECTION B (4Qx10M= 40 Marks)			
Q 6	Define VPN. What is a VPN used for and how does it work?	3+3+4	CO1
Q 7	Define VMM. Explain three main modules of a VMM with the help of a neat diagram. Also, explain various types of VMM.	2+4+4	CO2
Q 8	Give at least ten points of difference between public and private cloud.	10	CO3
Q 9	Write NIST definition of cloud computing. Explain the various components of cloud anatomy.	2+8	CO4
SECTION-C (2Qx20M=40 Marks)			
Q 10	Draw a neat diagram of NIST cloud computing reference architecture. Explain its various components in detail. OR Draw a neat diagram of IBM cloud computing reference architecture. Explain its various components in detail.	5+15	CO5
Q 11	Compare and contrast the IaaS, PaaS, and SaaS cloud delivery models, explaining their key characteristics, advantages, and limitations. Provide examples of scenarios or businesses that would benefit most from each model and justify your choices.	20	CO1