



VIT

Vellore Institute of Technology

REG.NO.:

SCHOOL OF COMPUTER SCIENCE ENGINEERING AND INFORMATION SYSTEMS
CONTINUOUS ASSESSMENT TEST - I
WINTER SEMESTER 2024-2025

SLOT: B1+TB1

Programme Name & Branch : B.Tech - Information Technology
Course Code and Course Name : Cloud Computing - BITE412L
Faculty Name(s) : Dr.VANI M P, Dr.BALA GANESH N
Class Number(s) : VL2024250502697, VL2024250502690
Date of Examination : 28-01-2025
Exam Duration : 90 minutes

Maximum Marks: 50

General Instruction(s):

- Answer All Questions
- M - Max mark; CO - Course Outcome; BL - Blooms Taxonomy Level (1 - Remember, 2 - Understand, 3 - Apply, 4 - Analyse, 5 - Evaluate, 6 - Create)
- Course Outcomes
CO1 - Apply the Virtualization techniques for Cloud Computing Services
CO2 - Compare, contrast, and evaluate the fundamental trade-offs in planning the multi-cloud system
CO5 - Analyze and solve industry-related problems using modern tools

Q. No.	Question	M	CO	BL
1	How can a healthcare organization utilize IaaS, PaaS, and SaaS to improve its operations, considering the need for data security, regulatory compliance, scalability, and cost management? Discuss the advantages and disadvantages of each model in this specific application	10	CO2	BL3
2	A multinational company is expanding its operations and requires a cloud solution to manage various needs: hosting a public-facing e-commerce platform, securing sensitive financial and customer data, collaborating with industry partners, and ensuring flexibility for future growth. How can the company leverage all four cloud deployment models—Public, Private, Hybrid, and Community—effectively? Discuss how each model could be applied to meet specific requirements and the advantages and challenges of this approach.	10	CO2	BL3
3	A small business wants to expand its online presence by building a scalable website, storing customer data securely, and analyzing user behaviour to improve its marketing strategies. How can different cloud services and platforms can be used to achieve these goals? Discuss the specific services each platform offers and their benefits in this context.	10	CO5	BL3
4	Explain in detail on Levels of Virtualization Implementation with neat diagram. Compare the levels of Virtualization in terms of performance, flexibility and complexity	10	CO1	BL2



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In what ways do the virtualization of CPU, memory, and I/O devices facilitate resource sharing and isolation in virtualized environments, and explain how each type of virtualization is achieved?

10

CO1

BL2
