JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1EXAMINATION- 2025

B.Tech-V Semester (CSE/IT)

COURSE CODE (CREDITS):20B1WCI532 (02)   MAX. MARKS: 15

COURSE NAME: CLOUD COMPUTING: CONCEPTS, TECHNOLOGY & ARCHITECTURE

COURSE INSTRUCTORS: PKG, NKR, VNSMAX. TIME: 1 Hour

Note:(a)All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required

for solving problems.

Q.No.	Question	CO	Marks
Q1	What is Virtualization? Compare the terms Full Virtualization and Para Virtualization. Explain your answer with suitable layered diagrams.	CO1	2
Q2.	Differentiate between public, private, and hybrid clouds?	CO1	2
Q3.	How does Hyper-V provide isolation between guest operating systems? Compare Hyper-V with VMware.	CO1	2
Q4.	Explain how cloud computing facilitates collaboration and remote work, and discuss the risks of storing sensitive data in cloud environments.	CO2	3
Q5.	Explain the concept of "on-demand self-service" in cloud computing. Which layer of the cloud computing stack does this feature primarily relate to?	CO2	3
Q6.	In what scenario would an organization prefer using IaaS over PaaS? Provide a specific example.	CO2	3