

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST -2 EXAMINATIONS- 2026

B.Tech-V Semester (CSE)

COURSE CODE (CREDITS): 20B1WCI532

MAX MARKS: 25

COURSE NAME: CLOUD COMPUTING: CONCEPTS, TECHNOLOGY & ARCHITECTURE

COURSE INSTRUCTOR: PKG

MAX. TIME: 1 Hour 30 Min

Note: (a) All questions are compulsory.

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

(c) Use of calculator is not allowed

Q.No	Question	CO	Marks
Q1	a) Define capacity planning. b) Describe how reserved instances can be used in capacity planning to manage long-term cloud costs. c) What is Identity as a Service (IDaaS)? Provide a brief explanation of its purpose in cloud computing. d) Which cloud service model allows developers to build, test, and deploy applications without managing the underlying infrastructure?	3	2x4=8
Q2	What is the difference between public cloud services and private cloud services? Provide an example of each.	3	3
Q3	What are some key factors to consider when performing capacity planning for cloud services?	3	3
Q4	How can organizations optimize their costs when using PaaS? Discuss the role of resource allocation, auto-scaling, and reserved instances in managing expenses.	4	3
Q5	Discuss how PaaS platforms integrate with other cloud services (e.g., IaaS, SaaS) and on-premises systems. What challenges might arise during integration, and how can they be addressed?	4	4
Q6	Describe the basic architecture of a LongJump application. What are the main components involved in building and deploying an application on this platform?	4	4