

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2025

B.Tech-V Semester (CSE)

COURSE CODE (CREDITS): 25B11CI513 (3)

MAX. MARKS: 15

COURSE NAME: Cloud Computing and Security

COURSE INSTRUCTORS: ARV*

MAX. 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	Briefly explain all the main cloud service models?	1	3
Q2	What are the different categories that constitute cloud security? Discuss briefly.	1	3
Q3.	Identify and describe different types of cloud security risks that organizations face while adopting cloud computing.	2	3
Q4.	An authentication system uses a 6-character password consisting of only lowercase letters (26). (a) How many possible passwords are there? (b) If an attacker guesses 1000 passwords per second, how long (in days) would brute force take in the worst case?	1	3
Q5	A cloud provider guarantees 99.9% availability. Calculate the maximum downtime allowed per year. Discuss why downtime risk is critical for cloud security.	1	3