

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2025

B.Tech-7th Semester (CSE/IT)

COURSE CODE (CREDITS): 18B1WCI736

MAX. MARKS: 15

COURSE NAME: STORAGE NETWORKS

COURSE INSTRUCTORS: Dr Pankaj Dhiman, Mr. Akshay Kumar

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	How does data proliferation affect backup and disaster recovery strategies in large-scale systems?	1	3
Q2	How does ILM ensure the balance between data accessibility, security, and cost optimization? Give an example.	1	3
Q3.	Explain the concept of "write penalty" in RAID 5. How does it impact performance in high-write workloads?	2	3
Q4.	What are the limitations of hot sparing in terms of performance degradation during rebuild?	2	3
Q5	Compare and contrast DAS, NAS, and SAN in terms of architecture, scalability, and management complexity.	1	3