

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2024

B.Tech-VI Semester (BT-BI)

COURSE CODE(CREDITS): 18M11CI113

MAX. MARKS: 15

COURSE NAME: Advance Database System Security

COURSE INSTRUCTORS: Dr. Rakesh Kanji

MAX. TIME: 1 Hour

Note: (a) Answer any 5.

(b) Marks are indicated against each question in square brackets.

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

Q1. Explain the role of CIA model in Database Security? Discuss authentication & authorization? [1.5+1.5] [CO3]

Q2. What are the ways accidental and deliberate security threats take place. [1.5+1.5] [CO3]

Q3. Write SQL for auditing while table updating and table back up. [1.5+1.5] [CO6]

Q4. What are files be used to implement database encryption. Write SQL code to implement it. [1+2] [CO4,CO5]

Q5. Explain the Security principal hierarchy? Discuss the purpose of SQL authentication. [2+1] [CO5]

Q6. Discuss the importance of Server_admin and Security_admin role in Security principal hierarchy model. Why this model has separate layer for database login. [2+1] [CO5]
