JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- APRIL-2023

COURSE CODE (CREDITS):19B1WCI835 (3)   MAX. MARKS: 25

COURSE NAME: Cloud Computing Security

COURSE INSTRUCTORS: Dr. Nancy Singla   MAX. TIME: 1 Hour 30 Minutes

Note: All questions are compulsory. Marks are indicated against each question in square brackets.

1. (a) What is the role of the Hypervisor in the cloud computing?   [2+3]
   (b) Does the performance of Type-1 Hypervisor is better than Type-2   (CO1)
   Hypervisor? Justify.

2. (a) An organization is selecting a cloud architecture and does not want to be   [2+3]
   responsible for patch management of the operating systems. Which cloud   (CO2)
   computing services will be suitable for this organization?
   (b) What are the three primary rules for Role Based Access Control (RBAC)?

3. How OS hardening can help reduce the risk of a successful cyber-attack in a   [5]
   cloud environment?   (CO3)

4. What is the purpose of a public key infrastructure (PKI)? Explain the   [5]
   components of PKI.   (CO2)

5. (a) What are the various detection methodologies used by the Intrusion   [3+2]
   Detection System (IDS) for providing access control in cloud.   (CO2)
   (b) Explain how data can be obfuscated using tokenization method.