

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -3 EXAMINATION- 2023

B.Tech-VIII Semester (CSE/IT)

COURSE CODE (CREDITS):19B1WCI835 (3)

MAX. MARKS: 35

COURSE NAME: CLOUD COMPUTING SECURITY

COURSE INSTRUCTORS: DR. NANCY SINGLA

MAX. TIME: 2 Hours

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

1. (a) A web server administrator is configuring access settings on cloud to require users to authenticate first before accessing certain web pages. Which requirement of information security from CIA triad is addressed through the configuration? [2+3]
(CO1)
(b) You work as a cloud security consultant for a healthcare organization that is using a hybrid cloud environment. What challenges do you see in managing security in a hybrid cloud environment, and how would you address them?
2. How Identity Federation works in a cloud computing? Explain with an example. [5]
(CO2)
3. What are the requirements of virtualization platform in implementing cloud? [5]
4. (a) What are the roles and responsibilities of an incident responder? How would you detect a storage-related security incident in the cloud? [5+5]
(CO1)
(CO3)
(b) Describe the structured framework for security incidents that is followed during incident response process in cloud.
5. You work as a cloud security engineer at a financial institution. Your organization has recently migrated to the cloud and is now using AWS. You are responsible for ensuring the security of the cloud infrastructure. What are the key security risks associated with using AWS, and how would you mitigate them? [5]
(CO4)
6. (a) What are the advantages of using Docker container? [2+3]
(b) Explain the architecture of Docker. (CO1)