JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -1 EXAMINATION- 2024

B.Tech-VI Semester (CSE/IT/ECM)

COURSE CODE (CREDITS): 19B1WCI635 (02)

MAX. MARKS: 15

COURSE NAME: Architecting Distributed Cloud Applications

COURSE INSTRUCTORS: ARV

MAX. TIME: 1 Hour

Note: (a) All questions are compulsory.

(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

- 1. List out the reasons why a service instance may fail in a cloud environment. [3][CO-1]
- 2. Write down the role of an orchestrator in the context of distributed cloud computing?

[3][CO-1]

- 3. Discuss the concept of fault domain in context of cloud and data center environment? What is the purpose of creating fault domains? Discuss the hierarchy of fault domains with a suitable diagram.

 [3][CO-1]
- 4. Explain the key characteristics of micro services architecture. Write down the reasons to split a monolith into micro services? [3][CO-2]
- 5. What are the various ways to auto scale the service instances in a distributed cloud environment.

 [3][CO-2]