**Birla Institute of Technology & Science, Pilani**

**Work-Integrated Learning Programmes Division**

**First Semester 2022-2023**

**Mid-Semester Test**

**(EC-2 Regular)**

Course No. : CSI ZG527

Course Title : CLOUD COMPUTING

Nature of Exam : Open Book

No. of Pages = 1

# No. of Questions = 12

Weightage : 35%

Duration : 2 Hours

Date of Exam : Sunday, 25/09/2022 (AN)

Note:

1. Please follow all the *Instructions to Candidates* given on the cover page of the answer book.
2. All parts of a question should be answered consecutively. Each answer should start from a fresh page.
3. Assumptions made if any, should be stated clearly at the beginning of your answer.
4. Explain the different algorithms used for load balancing in cloud computing environment? [2]
5. Explain the concept of horizontal and vertical scaling for a cloud based services with example.

List and briefly describe the major points that you would consider in assessing an SLA for a cloud service. [3]

1. Explain single tenant and multi-tenant cloud computing approach with pros and cons? [2]
2. What is fault tolerance and auto healing in cloud computing and how it is implemented [3]
3. What is the design principle of mutli-tenant SaaS product on cloud? [2]
4. What is the difference between server virtualization and OS virtualization? [2]

### What is the difference between the Hybrid Cloud and Hybrid IT? [4]

### What is cloud native application? Explain in detail how to deploy cloud native application on cloud [4]

### What is On-Demand functionality in cloud computing? Explain briefly how to implement this functionality in any of cloud platform like AWS/Azure/Google [3]

### How can DDos attack be prevented and minimised using AWS services ? [3]

### How are S3 and EBS different from each other? [3]

### On what platforms can docker run? How docker is different from VM [4]

### \*\*\*\*\*

. Top of Form

Bottom of Form

 Top of Form