# Department of Computer Science & Engineering

**QUESTION BANK FOR VII SEM (CSE) (Autonomous Syllabus)**

**Subject Code: CSL77**       **TERM: OCT 2021 – FEB 2022**       **I.A. Marks: 50**
**Subject Name: Micro Services Lab**                                      **Exam Hours: 03**
**Credits: 0:0:1**                                                                    **Exam Marks: 50**

## PART-A

(Open Book with Internet)

Develop Simple Microservices with the following features.

- Create minimum two Micro Services for the given use case. (a separate use case will be provided for each batch on the day of examination)
- Create Discovery Service (Creating Eureka Discovery Service)
- Register with Discovery Service.
- Create a API Gateway acts as a single entry point for a collection of micro services

## PART-B

(Closed Book without Internet)

| | |
|---|---|
| 1. | Create a simple deployment of the given app with name of your choice and 3 replicas of pods. Check the status of pod by sending request. App should be accessed from outside the cluster and Use port forwarding to access applications in a cluster |
| 2. | Demonstrate the updation of image in live container in a pod using command line as well as by updating yaml files |
| 3. | Perform the following. <br> a) Create 3 pods with names nginx1, nginx2,nginx3. All of them should have the label app=v1 Show all labels of the pods. <br> b) Get only the 'app=v2' pods. <br> c) Remove the 'app' label from the pods we created before |
| 4. | Create a Pod with ubuntu image and a command to echo "YOUR_NAME" which overrides the default CMD/ENTRYPOINT of the image. |
| 5. | Create a Pod that runs one container. The configuration file for the Pod defines a command and arguments by using environment variables |

**Marks Distribution:**

| Conduction and Result | Write-Up | Execution | Viva | Change of Program | Total |
|---|---|---|---|---|---|
| Part – a | 4 | 28 | 3 | Not allowed | 50 Marks |
| Part – b | 4 | 11 | | -3 marks | |

HOD, Dept. of CSE