Name:	
Enrolment No:	![UPES logo] **UPES** UNIVERSITY WITH A PURPOSE

Course: Application Containerization   Semester: 7
Program: B.Tech(Big Data - academic collab Xebia)   Time 03 hrs.
Course Code: CSDV3004   Max. Marks: 100

SECTION A

1. **Each Question will carry 5 Marks**
2. **Instruction: Complete the statement / Select the correct answer(s)**

S. No.	Question	CO
Q 1	Differenciate between docker image and docker container .	**CO2**
Q2	Discuss the three aspects that needs to be monitored in a container .	CO4
Q3	Elaborate two advantages and two disadvantages of Containers .	**CO2**
Q4	Explain container orchestration .	**CO4**
Q5	Explain smoke-sanity testing and regression testing .	**CO3**
Q6	Explain how putting the application in a container solves the issues faced by the Software Industry and fils all the cells of the Matrix. .	**CO1**

SECTION B

1. **Each question will carry 10 marks**
2. **Instruction: Write short / brief notes**

Q 7	Discuss the various issues in the Software Industry before containers ?	**CO1**

Q 8	Differenciate between virtualization and containerization .	**CO2**
Q 9	Explain hypervisor and the the different types of Hypervisor.	**CO2**
Q 10	Explain Docker Architecture .	**CO3**
Q 11	Explain Containerization Ecosystem . OR Enumerate and Explain the different types of Environments .	**CO3**

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Section C

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1. **Each Question carries 20 Marks.**
2. **Instruction: Write long answer.**

Q12	Explain how development and deployment work in docker using docker lifecycle . OR Explain Docker Swarm architecture and features of Kubernetes .	**CO4**