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MASTER OF COMPUTER APPLICATIONS
(Specialization in Cloud Technology)
EXAMINATION : JANUARY - 2025
SEMESTER - III
Sub: Infrastructure Containers (MCCL 23-306)

Date : 11/01/2025

Total Marks :60

Time: 10.00 am to 12.30 pm

Instruction:

1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labelled diagram wherever necessary.

Q.1. Answer the following in 2-3lines. (Any 5) (10)

1. How leader Election proceed in Docker Swarm
2. Explain what is Docker Build?
3. What is Docker File?
4. Explain any four docker command
5. What is Docker Image?
6. Explain different Modes of Docker Swarm
7. How Docker Swarm handle orchestration in container?

Q. 2. Answer the following in short. (Any 4) (20)

1. What are the Benefits of Docker Compose?
2. Build and Deploy Stack Using Docker Swarm Stack
3. Why Do We Need Containers?
4. Explain Container Lifecycle
5. Write down Basic Commands in Docker Compose
6. Explain Container Technology

Q. 3. Answer the following in detail. (Any 3) (30)

1. Elaborate Health Check in Docker Services
 2. Difference between Virtual Machines and Containers along with diagram
 3. Draw and explain Architecture of Docker
 4. Draw and explain Docker Compose Architecture
 5. Explain features of Docker Swarm
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