

MCA-I / Semester-II / DevOps (2024-25)

Comprehensive Concurrent Evaluation -2 A

Faculty Name: Prof. Sonali Tushar Shinde

Subject: DevOps

Subject Code: IT41

Sr. No.	Component	Marks	Last Date of Submission
1	Written Home Assignment	25	20 March 2025

Important Instructions:

1. The subject is evaluated on the basis of given component.
2. Assignments to be submitted in person.
3. Roll No, Student Name, Div, Contact number, Email-id, must be clearly mentioned.

Attempt all Questions.

1. Explain in detail Devops life cycle with diagram.
2. Explain any 5 linux commands with proper syntax and suitable example.
3. What is importance of Linux in DevOps ?
4. Explain RPM and YUM Installation in detail.
5. Write all the steps Installing Docker on Linux.

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Comprehensive Concurrent Evaluation -2 B

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Attempt all Questions.

1. Write a difference between CVCS and DVCS.
2. Explain git essentials in detail.
3. Write a short note on
 - a. Creating branch in Git.
 - b. Branching in git
 - c. SDLC Model

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Comprehensive Concurrent Evaluation -2 C

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Attempt all Questions.

1. How to Create the data bags using CLI and Chef Console.
2. Explain types of handlers in chef.
3. How to set up chef workstation, chef server, Nodes, Chef client? Explain it.
4. List types of handlers in chef and explain it.
5. Explain chef components.

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Comprehensive Concurrent Evaluation -2 D

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Attempt all Questions.

1. Explain Maven build life cycle.
2. What are different types of Maven repositories?
3. What is a distributed VCS?
4. Explain Maven local and gobal repositories in details with steps
5. How to create maven local and global repository?

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Comprehensive Concurrent Evaluation -2 E

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Attempt all Questions.

1. Explain Docker components with suitable documents.
2. What is docker hub? Explain running multiple containers with suitable examples.
3. Write all the steps Installing Docker on Linux.
4. What are the fundamental differences between DevOps & Agile.
5. What are the advantages of using Docker container?