

Department of Computer Science and Engineering

III B.Tech I Semester – CSE

DevOps (23CS503)

Unit Wise Question Bank

Academic Year: 2026-27 | Regulation: NR23

UNIT – II

Software Development Models and DevOps

Part – A (2 Marks Questions)

S.No	Question	BTL	CO
1	What are different Software Development Life Cycle models?	L2	CO2
2	What is Data Tier in DevOps?	L2	CO2
3	What is Monolithic Architecture?	L2	CO2
4	What are the benefits of Monolithic Architecture?	L3	CO2
5	What is Microservices Architecture?	L2	CO2
6	How does DevOps impact software quality and reliability?	L2	CO2
7	Describe the relationship between DevOps and Software Architecture.	L3	CO2
8	How does Design Architecture support DevOps?	L1	CO2
9	What is Version Control and why is it important in DevOps?	L2	CO2
10	Explain Coupling in software architecture.	L1	CO2

Part –B (5 Marks Questions)

S.No	Question	BTL	CO
1	Explain DevOps lifecycle in detail.	L1	CO2
2	What are DevOps components?	L2	CO2
3	Explain DevOps Architecture in detail.	L2	CO2
4	What are Microservices and how does Microservice Architecture work?	L2	CO2
5	Explain Architecture Rules of Thumb in DevOps.	L2	CO2
6	Explain Database Migration.	L2	CO2
7	What are the advantages of Migration Tools?	L2	CO2
8	Write a brief note on Software Architecture and explain the Monolithic case.	L3	CO2
9	Describe DevOps Architecture and Resilience in detail.	L2	CO2
10	How does Branching and Merging work in Git?	L2	CO2