DevOps Questions : Sheet1

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1	S. No.	Question	To
2	1	What is DevOps and how is it different from traditional IT?	
3	2	What are the key benefits of implementing DevOps in an organization?	
4	3	Explain the CALMS model in DevOps.	
5	4	What is Continuous Integration (CI) and why is it important?	
6	5	What is the difference between Continuous Delivery and Continuous Deployment?	D
7	6	What are microservices, and how do they relate to DevOps?	
8	7	What are the stages of a typical DevOps pipeline?	
9	8	How does DevOps improve collaboration between development and operations teams?	
10	9	What is the role of monitoring in DevOps?	
11	10	What are some common challenges faced during DevOps implementation?	
12	11	How do you set up a Jenkins pipeline for CI/CD?	
13	12	What's the difference between a Docker image and a Docker container?	
14	13	Explain how Kubernetes handles container orchestration.	
15	14	How do you manage secrets in Kubernetes?	
16	15	Describe how you would configure Ansible for provisioning infrastructure.	
17	16	What is Terraform and how does it differ from CloudFormation?	
18	17	How do you create a CI/CD workflow using GitHub Actions or GitLab CI?	
19	18	How does Prometheus work for monitoring, and how can it be integrated with Grafana?	
20	19	How do you configure alerting in a DevOps monitoring stack?	
21	20	Explain the use of ELK stack (Elasticsearch, Logstash, Kibana) in log management.	
22	21	Your deployment fails midway in production. What steps would you take to resolve the issue quickly?	
23	22	You find that your CI pipeline is taking too long. How would you optimize it?	
24	23	You need to roll back a deployment due to a major bug. What's your approach?	
25	24	You discover inconsistent environments across dev, staging, and prod. How would you resolve this using Infrastructure as Code?	
26	25	A Kubernetes pod keeps crashing repeatedly. How would you troubleshoot?	
27	26	Developers complain about slow feedback from the CI pipeline. What would you do?	
28	27	You've been asked to migrate a legacy monolithic app to a containerized microservice architecture. How would you proceed?	
29	28	Security team reports that secrets were committed to Git. How would you handle this incident and prevent it in the future?	
30	29	How would you scale a web application in Kubernetes during a traffic spike?	
31	30	How do you handle blue-green or canary deployments in a production environment?	

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