



SITE RELIABILITY ENGINEERING (SRE) EXAM PREPARATION GUIDE

Questions 1–4: SRE Fundamentals

1

Q1. Primary Objective of SRE

- A. Reduce software development costs
- B. Improve system reliability through engineering practices**
- C. Replace DevOps teams
- D. Eliminate all production incidents

✔ Answer: B

2

Q2. Metric That Directly Measures User Experience

- A. CPU utilization
- B. Service Level Indicator (SLI)**
- C. Disk I/O
- D. Server uptime log

✔ Answer: B

3

Q3. Relationship Between SLI and SLO

- A. SLI measures performance, SLO defines target performance**
- B. SLI is a contract, SLO is a metric
- C. SLI replaces SLO
- D. SLO measures performance, SLI defines targets

✔ Answer: A

4

Q4. Annual Error Budget for 99.95% SLO

- A. 5%
- B. 0.5%
- C. 0.05%**
- D. 99.95%

✔ Answer: C

Questions 5–8: Error Budgets, Toil & Golden Signals

1

Q5. Balancing Innovation and Reliability

- A. Capacity Planning
- B. **Error Budget**
- C. Change Freeze
- D. Load Testing

✔ Answer: B

2

Q6. Which Activity Is Considered Toil?

- A. Developing automation scripts
- B. Designing resilient architecture
- C. **Repetitive manual server maintenance**
- D. Capacity forecasting

✔ Answer: C

3

Q7. Key Characteristic of Toil

- A. Strategic value
- B. Long-term scalability
- C. **Manual and repetitive work**
- D. Customer-facing functionality

✔ Answer: C

4

Q8. NOT One of Google's Four Golden Signals

- A. Latency
- B. Traffic
- C. **Availability**
- D. Saturation

⚠ Answer: C

Questions 9–12: Observability & Postmortems

Q9. What Traces Primarily Help Teams Understand

- A. Resource utilization
- B. **Request flow across systems**
- C. Security vulnerabilities
- D. User permissions

✔ Answer: B

Q10. Pillar That Captures Event Records

- A. Metrics
- B. Traces
- C. **Logs**
- D. Alerts

✔ Answer: C

Q11. Primary Purpose of a Blameless Postmortem

- A. Identify responsible individuals
- B. Assign disciplinary actions
- C. **Learn and improve systems**
- D. Meet compliance requirements

✔ Answer: C

Q12. MTTR Stands For

- A. Mean Time to Reconfigure
- B. **Mean Time to Recover**
- C. Mean Time to Report
- D. Mean Time to Replicate

✔ Answer: B

Questions 13–16: Incident Management & Deployments

1

Q13. Metric Measuring Incident Detection Speed

- A. MTTR
- B. SLA
- C. **MTTD**
- D. SLO

✔ Answer: C

2

Q14. Purpose of Incident Severity Classification

- A. Determine hardware requirements
- B. **Prioritize response efforts**
- C. Allocate development budgets
- D. Manage source code

✔ Answer: B

3

Q15. Deployment Strategy for Small Subset of Users First

- A. Big Bang Deployment
- B. Waterfall Deployment
- C. **Canary Deployment**
- D. Batch Deployment

✔ Answer: C

4

Q16. Main Benefit of Blue-Green Deployment

- A. Faster coding
- B. **Reduced deployment risk**
- C. Lower storage usage
- D. Simplified networking

✔ Answer: B

Questions 17–20: Infrastructure as Code & Capacity Planning

Q17. What IaC Primarily Improves

- A. Software licensing
- B. **Infrastructure consistency and automation**
- C. Database normalization
- D. End-user support

✔ Answer: B

Q19. Purpose of Capacity Planning

- A. Reduce source code complexity
- B. **Forecast and prepare for future demand**
- C. Eliminate incidents
- D. Improve UI design

✔ Answer: B

Q18. Tool Category for IaC

- A. CRM systems
- B. Ticketing systems
- C. **Terraform-like provisioning tools**
- D. Spreadsheet software

✔ Answer: C

Q20. Most Useful Metric for Infrastructure Growth Forecasting

- A. Source code size
- B. **CPU utilization trends**
- C. Number of developers
- D. Meeting attendance

✔ Answer: B

Questions 21–24: SLAs, Error Budgets & Availability

1

Q21. What a Service Level Agreement (SLA) Primarily Is

- A. An internal reliability goal
- B. A customer-facing commitment**
- C. A monitoring tool
- D. A deployment method

✔ Answer: B

2

Q22. Action When Error Budget Is Exhausted

- A. Increase deployment frequency
- B. Freeze risky releases and improve reliability**
- C. Disable monitoring
- D. Ignore incidents

✔ Answer: B

3

Q23. Primary Objective of Observability

- A. Increase storage capacity
- B. Understand internal system behavior**
- C. Improve UI responsiveness
- D. Reduce coding standards

✔ Answer: B

4

Q24. Metric That Best Measures Service Availability

- A. $\text{Successful requests} \div \text{total requests}$**
- B. CPU utilization
- C. Disk capacity
- D. Network bandwidth

✔ Answer: A

Questions 25–28: Alert Fatigue, Auto-Scaling & Kubernetes

Q25. Major Risk of Alert Fatigue

- A. Better visibility
- B. Increased responsiveness
- C. **Important alerts being ignored**
- D. Improved system performance

✔ Answer: C

Q26. Practice That Best Reduces Alert Fatigue

- A. Increase all alert sensitivity
- B. Generate duplicate alerts
- C. **Remove noisy and non-actionable alerts**
- D. Disable monitoring

✔ Answer: C

Q27. Primary Goal of Auto-Scaling

- A. Increase source code quality
- B. **Automatically adjust resources to demand**
- C. Improve documentation
- D. Manage licenses

✔ Answer: B

Q28. Smallest Deployable Kubernetes Unit

- A. Cluster
- B. Node
- C. **Pod**
- D. Deployment

✔ Answer: C

Questions 29–32: Kubernetes, Redundancy & Disaster Recovery

1

Q29. Purpose of a Liveness Probe in Kubernetes

- A. User authentication
- B. **Detect unhealthy containers**
- C. Network routing
- D. Backup management

✔ Answer: B

2

Q30. Practice That Eliminates Single Points of Failure

- A. **Redundancy**
- B. Compression
- C. Caching
- D. Refactoring

✔ Answer: A

3

Q31. What Failover Provides

- A. **Automated backup activation during failure**
- B. Faster software compilation
- C. Reduced storage costs
- D. Better documentation

✔ Answer: A

4

Q32. Primary Focus of Disaster Recovery Planning

- A. Coding standards
- B. **Service restoration after major disruptions**
- C. UI optimization
- D. Procurement management

✔ Answer: B

Questions 33–36: RTO, RPO, Security & Postmortems

Q33. RTO Stands For

- A. **Recovery Time Objective**
- B. Reliability Testing Objective
- C. Resource Tracking Output
- D. Recovery Trend Observation

✔ Answer: A

Q35. Security Principle Granting Only Necessary Access

- A. Open Access
- B. Shared Credentials
- C. **Least Privilege**
- D. Full Administration

✔ Answer: C

Q34. RPO Stands For

- A. **Recovery Point Objective**
- B. Reliability Process Optimization
- C. Resource Planning Objective
- D. Response Performance Outcome

✔ Answer: A

Q36. SRE Practice Focused on Learning from Failures

- A. Capacity Planning
- B. **Blameless Postmortems**
- C. Resource Allocation
- D. Configuration Management

✔ Answer: B

Questions 37–40: Monitoring, CI/CD, Tracing & Severity

1

Q37. Monitoring Approach Focused on Customer Impact

- A. **Business-focused monitoring**
- B. Hardware monitoring
- C. Storage monitoring
- D. Firmware monitoring

✔ Answer: A

2

Q38. Major Benefit of CI/CD Pipelines

- A. Increased manual approvals
- B. **Faster and safer software delivery**
- C. Reduced automation
- D. Higher operational toil

✔ Answer: B

3

Q39. Primary Purpose of Distributed Tracing

- A. User authentication
- B. **Track requests across multiple services**
- C. Database encryption
- D. Capacity forecasting

✔ Answer: B

4

Q40. Severity Level for Complete Service Outage

- A. SEV-4
- B. SEV-3
- C. SEV-2
- D. **SEV-1**

✔ Answer: D

Questions 41–44: Reliability Engineering & Continuous Improvement

Q41. Primary Goal of Reliability Engineering

- A. Maximize downtime
- B. **Design systems that consistently perform as expected**
- C. Reduce documentation
- D. Increase manual processes

✔ Answer: B

Q42. Metric That Helps Evaluate Deployment Efficiency

- A. **Deployment Frequency**
- B. CPU Temperature
- C. Network Utilization
- D. Disk Capacity

✔ Answer: A

Q43. Key Benefit of Infrastructure as Code

- A. Manual provisioning
- B. **Repeatable and consistent infrastructure deployment**
- C. Increased operational toil
- D. Reduced automation

✔ Answer: B

Q44. Practice Supporting Continuous Improvement in SRE

- A. Ignoring operational metrics
- B. **Regular review of incidents and reliability data**
- C. Eliminating monitoring
- D. Avoiding automation

✔ Answer: B

Questions 45–48: Service Ownership, Resilience & Change Management

1

Q45. Primary Purpose of Service Ownership

- A. **Define accountability for system reliability**
- B. Eliminate monitoring
- C. Increase ticket volume
- D. Reduce automation

✔ Answer: A

2

Q46. Activity Belonging to Proactive Operations

- A. Waiting for outages
- B. **Capacity forecasting and monitoring trends**
- C. Ignoring alerts
- D. Manual incident escalation only

✔ Answer: B

3

Q47. Factor Contributing Most to Operational Resilience

- A. Single server architecture
- B. Lack of backups
- C. **Redundancy and failover mechanisms**
- D. Manual deployments

✔ Answer: C

4

Q48. Primary Purpose of Change Management in SRE

- A. **Introduce changes safely and minimize service disruptions**
- B. Eliminate automation
- C. Reduce monitoring visibility
- D. Increase deployment failures

✔ Answer: A

Questions 49–50: SRE Maturity & Organizational Excellence

Q49. SRE Maturity Level with Extensive Automation

- A. Initial
- B. Reactive
- C. Managed
- D. **Optimized**

✔ Answer: D

Q50. Best Characterization of a Mature SRE Organization

- A. Manual operations and reactive incident response
- B. **High reliability, strong observability, automation, and continuous improvement**
- C. Minimal monitoring and documentation
- D. Exclusive focus on infrastructure

✔ Answer: B



SITE RELIABILITY ENGINEERING (SRE) FOUNDATION CERTIFICATION (CSREF)



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