DevOps MCQ's and Fill in the blanks

UNIT-I: Introduction

a) Information Technology Infrastructure Library b) Integrated Technology Infrastructure c) Information Technology Integration Lab d) Infrastructure Tools and Innovation Answer: a) Information Technology Infrastructure Library 2. What is the primary focus of Agile development? a) Creating extensive documentation b) Iterative development and customer collabout c) Avoiding changes during development d) Waterfall model integration Answer: b) Iterative development and customer collaboration 3. Which of the following is a key process in DevOps? a) Continuous Delivery b) Manual Deployment c) Sequential Waterfall Development d) Static Code Reviews Only Answer: a) Continuous Delivery b) Manual Deployment c) Sequential Waterfall Development d) Static Code Reviews Only Answer: a) Sprints and Scrum Masters b) Visualization of workflows and limiting work in proc) Coding only in small teams d) Eliminating deployment pipelines Answer: b) Visualization of workflows and limiting work in progress 5. Which term refers to delays or inefficiencies in the delivery pipeline? a) Triggers b) Bottlenecks c) Continuous Integration d) Release Canswer: b) Bottlenecks Fill in the Blanks: 1 is a framework of best practices that aligns IT services with business needs. Answer: ITIL 2. The Agile development model promotes development and collaboration with stal Answer: iterative 3. The DevOps process enables and teams to work together for faster Answer: development, operations 4. A in the delivery pipeline is a point where inefficiencies or delays occur. Answer: bottleneck 5. In Scrum, the ensures that the team adheres to Agile practices. Answer: Scrum Master	
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Answer: Scrum Master	adheres to Agile practices.

UNIT-II: Software Development Models and DevOps

1.	What is the primary goal of Continuous Testing in DevOps?
	a) Reduce coding effort b) Eliminate manual testing entirely
	c) Ensure code quality at all stages of development d) Accelerate database migrations
_	Answer: c) Ensure code quality at all stages of development
2.	Which term is used to describe a unified and tightly coupled software architecture?
	a) Monolithic architecture b) Microservices architecture
	c) Layered architecture d) Event-driven architecture Answer: a) Monolithic architecture
3	What is the purpose of the "separation of concerns" principle in software architecture?
٥.	a) To reduce overall team size b) To minimize dependencies between components
	c) To combine database layers into one module d) To simplify version control
	Answer: b) To minimize dependencies between components
4.	Microservices architecture is characterized by:
	a) Tight coupling of all components b) Independent and loosely coupled services
	c) A single point of failure d) Centralized data tiers for all services
	Answer: b) Independent and loosely coupled services
5.	Which database operation is critical for software changes in a DevOps process?
	a) Data tier flattening b) Database migrations c) Table merging d) Query simplification
	Answer: b) Database migrations
	Fill in the Blanks:
	rin in the blanks.
1.	Continuous Testing in DevOps ensures at every stage of the software development
	lifecycle.
	Answer: code quality
2.	A architecture is a software design where the application is built as a single, unified unit.
	Answer: monolithic
3.	The principle of helps in creating modular and maintainable software architecture by
	reducing interdependencies.
	Answer: separation of concerns
4.	In a Microservices architecture, services are loosely coupled and communicate through
_	Answer: APIs
5.	is the process of modifying a database schema to accommodate software changes in
	DevOps. Answer: Database migration
	Miswei. Database illigiation

UNIT-III: Introduction to Project Management

1.	. What is the primary purpose of a build server	in DevOps?
	a) To monitor system performance	b) To automate and manage the build process
	c) To replace manual testing entirely	
	Answer: b) To automate and manage the build	process
2.	. In Jenkins, what is a build slave responsible for	or?
	a) Hosting the master server	b) Executing build jobs assigned by the master
	c) Managing Jenkins plugins	d) Monitoring job performance Answer:
	Answer: Executing build jobs assigned by the	master
3.	. What is the purpose of Infrastructure as Code	(IaC) in build servers?
	a) To manage hardware manually	b) To write code without build dependencies
	c) To automate infrastructure provisioning and	
	d) To define software testing environments ma	•
	Answer: c) To automate infrastructure provision	-
4.	. Which of the following is NOT a feature of Jeni	1 0
	a) Extending Jenkins functionality	b) Integration with third-party tools
	c) Automating code development	d) Adding build triggers
_	Answer: c) Automating code development	
5.	. What does job chaining in Jenkins allow?	
	•	b) Sequential execution of multiple build jobs
	c) Merging multiple pipelines	d) Removal of dependencies between jobs
	Answer: b) Sequential execution of multiple bu	ilia jobs
	Fill in the Blanks:	
1.	. In Jenkins, a server coordinates and d	istributes build tasks to build slaves.
_	Answer: master	
2.		infrastructure using code to automate processes.
_	Answer: Infrastructure as Code	
3.	. A in Jenkins is a script or tool that ext	ends its functionality.
,	Answer: plugin	
4.	. The process of defining build steps in the corr	ect order to avoid dependency issues is known as
	A	
_	Answer: building by dependency order	
5.	. Jenkins uses to initiate builds based o	n specific events or conditions.
	Answer: triggers	

UNIT-IV: Integrating the System

1.	What is the primary function of a build system	n in I	DevOps?			
	a) Manual code integration	b) A	utomating the	software compila	tion prod	cess
	c) Monitoring team activities	d) T	esting hardwai	re configurations		
	Answer: b) Automating the software compilation	on pr	ocess			
2.	In Jenkins, what is the primary role of build s	laves	5			
	a) Hosting the Jenkins master server			tasks assigned	by the m	aster
	c) Managing dependencies manually Answer: b) Executing build tasks assigned by	the n	naster server		erver	
3.	What does Infrastructure as Code (IaC) enable		_			
	a) Manual server configuration provisioning	b)	Automating	infrastructure	setup	and
	c) Minimizing the use of build pipelines d) Sin Answer: b) Automating infrastructure setup a			ng		
4.	Which Jenkins feature allows triggering a job	_	_	onditions?		
	a) Build pipelines b) Job chaining		-	d) Host server o	lependen	cies
	Answer: c) Triggers				_	
5.	What is "building by dependency order" in the	cont	ext of a build s	system?		
	a) Executing tasks in parallel without dependencies					
	b) Defining the sequence of builds based on their dependencies					
	c) Ignoring dependencies during the build phase					
	d) Using Jenkins plugins for visual pipelines					
	Answer: b) Defining the sequence of builds ba	sed o	n their depend	lencies		
	Fill in the Blanks:					
1.	in Jenkins extend its core functional	ity, e	nabling integra	ation with addition	onal tools	s and
	services.					
0	Answer: Plugins				•	
2.	In a build pipeline, are used to trigg	ger a	new build wh	en certain condi	ions are	met.
2	Answer: triggers The process of automating infrastructure prov	ricion	ing and mana	roment in DayOn	a ia Iznat	T710 00
ა.	The process of automating infrastructure pro-	/18101.	iing and mana	gement in DevOp	S 18 K1101	vii as
	Answer: Infrastructure as Code					
4	A server in Jenkins serves as the ce	ntral	controller dis	stributing jobs to	huild sl	laves
٠.	Answer: master	1111 CI	controller, die	dibdding jobs to	bana si	aves.
5.	refers to organizing build tasks in the	he co	rrect seauenc	e to avoid depen	dency is	sues.
- •	Answer: Building by dependency order		11111111111111			

UNIT-V: Testing Tools and Automation

1.	What is one of the main advantages of automated testing in DevOps?				
	a) Increased testing time b) Faster feedback and error detection				
	c) Manual intervention for every test d) Reduced code quality				
2	Answer: b) Faster feedback and error detection Which tool is primarily used for systemating browner testing?				
۷.	Which tool is primarily used for automating browser testing? a) Ansible b) Selenium c) Chef d) Docker				
	a) Ansible b) Selenium c) Chef d) Docker Answer: b) Selenium				
2	What does REPL stand for in REPL-driven development?				
٦.	a) Repeat, Execute, Program, Loop b) Read, Evaluate, Print, Loop				
	c) Read, Execute, Print, Line d) Run, Edit, Print, Loop				
	Answer: b) Read, Evaluate, Print, Loop				
4	Which deployment tool uses a "master and agent" architecture?				
٠.	a) Chef b) Puppet c) Salt Stack d) Docker				
	Answer: b) Puppet				
5.	What is the primary function of virtualization stacks in deployment?				
	a) To automate code testing b) To provide isolated environments for system execution				
c) To replace source control systems d) To create Docker images					
	Answer: b) To provide isolated environments for system execution				
	, 1				
	Fill in the Blanks:				
1.	Automation of testing provides faster feedback and increases throughout the development				
	process.				
	Answer: efficiency				
2.	Selenium is widely used for testing in web applications.				
	Answer: browser				
3.	The process of testing backend integration points ensures seamless communication between				
	in a system.				
	Answer: components				
4.	Test-Driven Development (TDD) involves writing before writing the actual code.				
	Answer: tests				
5.	Deployment tools like Chef and are used for configuration management in a DevOps				
	workflow.				
	Answer: Salt Stack				