

L.J Institute of Engineering and Technology, Ahmedabad. CC Practice book (SEM-V-2024 CE,IT,CSD,AIIML,AIDS,CS&IT,CSE,CST,CEA,RAI Engineering)								
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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D
UNIT 1 - Cloud Concepts Overview								
1	1	What is cloud computing?	B	1	Hosting physical servers on-premises	Using a network of remote servers to store, manage, and process data	Selling software to end users	Using a single computer for all operations
2	1	Which of the following is a key characteristic of cloud computing?	B	1	High initial setup cost	Scalability and on-demand resource allocation	Fixed resource allocation	Inflexible storage options
3	1	Cloud computing offers which service models?	A	1	IaaS, PaaS, SaaS	TCP, IP, HTTP	RAM, SSD, HDD	LAN, WAN, MAN
4	1	What does elasticity in cloud computing refer to?	B	1	The ability to automate software deployment	The ability to scale resources up or down based on demand	The use of virtual machines	The physical separation of servers
5	1	Which is NOT a deployment model of cloud computing?	D	1	Public Cloud	Private Cloud	Hybrid Cloud	Standalone Cloud
6	1	Which of the following is an advantage of cloud computing?	B	1	Increased capital expenditure	Improved agility and scalability	Increased hardware dependency	Higher maintenance requirements
7	1	How does cloud computing reduce costs for businesses?	B	1	By reducing electricity bills	By eliminating the need for physical hardware and maintenance	By increasing licensing fees	By decreasing productivity
8	1	Which advantage of cloud computing supports business continuity?	B	1	Scalability	High availability and disaster recovery	Vendor lock-in	Lack of updates
9	1	Which feature of cloud computing is beneficial for startups?	A	1	Pay-as-you-go pricing mode	Fixed yearly subscription costs	Expensive hardware purchases	Complex setup requirements
10	1	What is a major environmental advantage of cloud computing?	B	1	Higher energy consumption	Lower carbon footprint due to resource pooling	Increased paper usage	Decreased reliance on renewable energy
11	1	What is AWS?	B	1	A desktop operating system	A cloud service provider offering a range of services	A type of web browser	A database management tool
12	1	Which AWS service is used for virtual servers?	B	1	Amazon RDS	Amazon EC2	Amazon S3	Amazon CloudFront
13	1	Which AWS service provides object storage?	C	1	Amazon EC2	Amazon RDS	Amazon S3	AWS Lambda
14	1	What is AWS Lambda?	B	1	A service to create virtual machines	A serverless compute service	A tool for data storage	A database service
15	1	Which AWS service helps in content delivery?	C	1	Amazon S3	Amazon EC2	Amazon CloudFront	Amazon DynamoDB
16	1	What is the AWS pricing model based on?	B	1	Subscription plans	Pay-as-you-go	Fixed annual fee	Free for all services
17	1	What is an AWS Region?	A	1	A specific geographic area with multiple data centers	A service for managing user accounts	A network protocol used by AWS	A payment gateway in AWS
18	1	Which AWS service is used for relational databases?	A	1	Amazon RDS	Amazon S3	AWS Lambda	Amazon ECS
19	1	Which feature allows AWS users to monitor resource usage?	C	1	AWS Billing Dashboard	Amazon S3 Buckets	AWS CloudWatch	AWS Lambda
20	1	What is the purpose of the AWS Well-Architected Framework?	B	1	To provide coding best practices	To guide users in designing efficient cloud architectures	To offer marketing strategies for cloud solutions	To monitor physical data centers
21	1	What does the AWS Cloud Adoption Framework (CAF) focus on?	B	1	Technical support only	Guiding organizations in cloud adoption across multiple perspectives	Hardware procurement	Setting up internet protocols
22	1	How many perspectives does the AWS CAF consist of?	C	1	Three	Four	Six	Eight
23	1	Which perspective of AWS CAF focuses on security and compliance?	B	1	Operations Perspective	Security Perspective	Business Perspective	Platform Perspective
24	1	Which AWS CAF perspective is responsible for developing cloud skills?	A	1	People Perspective	Business Perspective	Governance Perspective	Platform Perspective
25	1	Which CAF perspective ensures the alignment of IT strategy with business objectives?	A	1	Business Perspective	Operations Perspective	Security Perspective	Platform Perspective
26	1	What is the primary benefit of the AWS Cloud Adoption Framework?	B	1	Faster hardware procurement	Structured approach to cloud transformation	Fixed cloud resources	Eliminating the need for cloud architects
27	1	What does the Operations Perspective of AWS CAF deal with?	B	1	Business outcomes	Managing and optimizing day-to-day cloud operations	Training employees	Financial analysis
28	1	Which CAF perspective focuses on governance and risk management?	B	1	Security Perspective	Governance Perspective	People Perspective	Operations Perspective
29	1	What is a common challenge addressed by the AWS CAF?	C	1	Migrating applications without planning	Lack of understanding of cloud services	Both a and b	None of the above
30	1	Which AWS tool helps implement the CAF?	D	1	AWS Trusted Advisor	AWS Migration Hub	AWS Artifact	AWS CAF Planning Tools
31	1	Discuss three major cost-saving benefits of adopting cloud computing.		3				
32	1	How does cloud computing enhance business agility and scalability? Provide examples.		2				
33	1	Explain the essential characteristics of cloud computing.		2				
34	1	Differentiate between public, private, and hybrid cloud deployment models with examples.		3				
35	1	Describe the key services offered by AWS and their primary use cases.		3				
36	1	What is Amazon EC2? Explain how it supports scalability and elasticity in AWS.		3				
37	1	Explain the concept of serverless computing using AWS Lambda as an example.		3				
38	1	Discuss the importance of AWS Regions and Availability Zones in ensuring high availability.		2				
39	1	What are the six perspectives of the AWS Cloud Adoption Framework (CAF), and how do they assist in cloud migration?		4				
40	1	How does the Security Perspective of AWS CAF ensure compliance and data protection during cloud adoption?		3				
41	1	Explain the role of the Operations Perspective in optimizing cloud-based resources and processes.		3				
42	1	Discuss the importance of aligning IT and business strategies as described in the Business Perspective of AWS CAF.		2				
UNIT-2 Cloud Economics and Billing								
43	2	What are the three fundamental drivers of cost with AWS?	A	1	Compute, Storage, Data transfer	Compute, Networking, Support	Storage, Networking, APIs	Billing, Support, Data transfer
44	2	Which AWS pricing principle allows you to avoid large upfront expenses?	A	1	Pay for what you use	Pay less when you use more	Pay less when you reserve	Custom pricing
45	2	What is the financial estimate to identify direct and indirect costs of a system?	A	1	Total Cost of Ownership (TCO)	AWS Free Tier	Cost Optimization Report	AWS Pricing Calculator
46	2	Which AWS service helps estimate monthly costs before implementation?	B	1	AWS Billing Dashboard	AWS Pricing Calculator	AWS Trusted Advisor	AWS Cost Explorer
47	2	What is a key feature of AWS Organizations?	C	1	Reserved Instances	AWS Pricing Calculator	Consolidated billing	AWS Trusted Advisor
48	2	Which of the following is NOT a benefit of the AWS Free Tier?	C	1	Hands-on experience with AWS services	Free for 1 year for new customers	Unlimited usage for all services	Start building with AWS
49	2	How can customers save up to 75% on AWS services?	B	1	By using the Free Tier	By investing in Reserved Instances	By using the Billing Dashboard	By leveraging AWS Support Plans

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50	2	What does TCO stand for in AWS?	B	1	Total Compute Optimization	Total Cost of Ownership	Total Cloud structure	Total Control Operations
51	2	Which AWS service provides cost and usage tracking over time?	B	1	Billing Dashboard	Cost Explorer	Trusted Advisor	AWS Pricing Calculator
52	2	Which support plan is designed for customers with business-critical workloads?	D	1	Basic Support	Developer Support	Business Support	Enterprise Support
53	2	What is the purpose of Service Control Policies in AWS Organizations?	C	1	To manage Reserved Instances	To monitor data transfers	To allow or deny access to AWS services for accounts in an OU	To configure IAM roles
54	2	What is a benefit of the AWS Pricing Calculator?	B	1	It monitors account security	It helps estimate monthly costs	It automates IAM role creation	It provisions EC2 instances
55	2	Which AWS tool allows you to set spending thresholds and alerts?	C	1	AWS Billing Dashboard	AWS Cost Explorer	AWS Budgets	AWS Trusted Advisor
56	2	What type of pricing does AWS S3 use?	C	1	Hourly pricing	Fixed pricing	Tiered pricing	Dynamic pricing
57	2	What is the key focus of AWS Trusted Advisor?	B	1	Billing management	Providing optimization recommendations	Data transfer monitoring	Application deployment
58	2	Explain the three fundamental drivers of cost in AWS and provide examples of each.		3				
59	2	What is the AWS pricing philosophy, and how does it benefit customers?		3				
60	2	Describe the concept of Total Cost of Ownership (TCO) and its importance when evaluating cloud solutions.		3				
61	2	What are Reserved Instances (RIs), and how do they help reduce costs for AWS customers?		3				
62	2	Discuss the purpose of the AWS Free Tier and the limitations associated with it.		3				
63	2	What are the key features of AWS Organizations, and how do they simplify account management?		3				
64	2	Explain the purpose and benefits of the AWS Pricing Calculator.		3				
65	2	What are the different AWS Support Plans, and what kind of use cases are they suited for?		3				
66	2	How does AWS achieve cost efficiency as its business grows, and how are those savings passed on to customers?		3				
Unit-3 Global Infrastructure Overview								
67	3	What is the primary purpose of AWS Global Infrastructure?	D	1	To ensure data governance	To provide low-latency delivery	To ensure security	To deliver a flexible, reliable, scalable, and secure cloud environment
68	3	Which component of AWS global infrastructure ensures fault isolation?	C	1	AWS Regions	Edge locations	Availability Zones	AWS Local Area
69	3	What is the recommended practice for replicating data in AWS Regions?	C	1	AWS manages all replication	Replication occurs automatically	Data replication is controlled by you	AWS ensures replication
70	3	Which AWS feature reduces latency in content delivery?	C	1	AWS Regions	Regional edge caches	AWS edge locations	Amazon VPC
71	3	What is an AWS Region?	B	1	A type of data center	A geographical area with full redundancy	A specific type of Availability Zone	A global network
72	3	What does AWS recommend for resiliency in Availability Zones?	B	1	Storing data in a single Availability Zone	Replicating data across Availability Zones	Replicating data across Regions	No replication necessary
73	3	How are Availability Zones interconnected?	B	1	Through public networking	Through high-speed private networking	Using direct network access	Redundant public networking
74	3	What is the typical size range of an AWS data center?	B	1	10,000 to 30,000 physical servers	50,000 to 80,000 physical servers	20,000 to 30,000 physical servers	10,000 to 30,000 physical servers
75	3	What type of locations are included in AWS Points of Presence?	D	1	Only edge locations	Edge locations and Regional edge caches	Only zone location	Edge locations and Regional edge caches
76	3	Which AWS service category does Amazon S3 belong to?	A	1	Storage	Compute	Database	Networking
77	3	Which AWS service category includes Amazon EC2?	B	1	Storage	Compute	Database	Networking
78	3	Which AWS service is used for relational databases?	A	1	Amazon RDS	Amazon DynamoDB	Amazon Aurora	Amazon Redshift
79	3	What is Amazon Route 53 used for?	B	1	Load balancing	DNS management	Content delivery	Load balancing
80	3	What is the AWS Trusted Advisor used for?	A	1	To provide recommendations for resource optimization	To manage users	To provide real-time metrics	To monitor USER
81	3	Under which category does AWS CloudTrail fall?	C	1	Networking and Content Delivery	Security, Identity, and Compliance	Management and Governance	compute
82	3	What is the primary purpose of Amazon CloudFront?	B	1	Data encryption	Content delivery with reduced latency	Elasticity and scalability	Operational scaling
83	3	What type of cache is used for infrequently accessed content?	B	1	Edge locations	Regional edge caches	isolated area	zonal locations
84	3	Which AWS service helps with automated scaling?	C	1	Amazon EBS	AWS Elastic Beanstalk	Amazon EC2 Auto Scaling	AWS Fargate
85	3	Which AWS category includes Elastic Load Balancing?	C	1	Compute	Management and Governance	Networking and Content Delivery	security
86	3	What does AWS Artifact provide?	A	1	Compliance documents	Operational monitoring	High availability	Elastic infrastructure
87	3	What is a key feature of AWS infrastructure?	B	1	Security and redundancy	Elasticity and scalability	Fault tolerance	Security and compliance
88	3	What should you consider when selecting an AWS Region?	A	1	Proximity to AWS headquarters	Services available in the Region	Cost variations	Latency variations
89	3	Which services are global instead of Regional?	B	1	Amazon EC2 and Lambda	IAM and Route 53	vpc and Route 53	Amazon EC2 and Lambda
90	3	Where do subnets exist within AWS infrastructure?	B	1	At the level of the Region	At the level of the Availability Zone	At the level of the local zone	At the level of the storage
91	3	Where do VPCs exist within AWS infrastructure?	B	1	At the level of the Region	At the level of the zonal area	At the level of the local area	At the level of the Availability Zone
92	3	What are the two main components of AWS Global Infrastructure?	A	1	Regions and Availability Zones	Edge locations and caching	Elastic infrastructure and fault tolerance	zonal Edge locations
93	3	Which AWS service is used for containerized applications?	C	1	Amazon S3	Amazon EKS	Amazon ECS	Amazon EC2
94	3	What is the main use of AWS Key Management Service?	A	1	Data encryption management	To encrypt sensitive data	Operational monitoring	To manage encryption keys
95	3	What is AWS Elastic Beanstalk used for?	B	1	Managing databases	Deploying and managing applications	Managing SQL databases	Deploying NoSQL databases
96	3	Which service category includes Amazon Cognito?	D	1	Storage	Management and Governance	Networking and Content Delivery	Security, Identity, and Compliance
97	3	What is a major feature of AWS data centers?	D	1	Cost management	Global content distribution	Edge location management	Fully redundant power and networking
98	3	Which AWS service provides a CDN?	B	1	Amazon EC2	Amazon CloudFront	AWS CloudTrail	AWS CloudFargate
99	3	Which AWS service is related to fault tolerance?	D	1	AWS CloudTrail	AWS Trusted Advisor	AWS Lambda	AWS Auto Scaling
100	3	What service provides API-based deployment?	B	1	Amazon EC2	AWS Lambda	AWS Budgets	AWS ECS
101	3	Which AWS service helps manage costs?	D	1	AWS Cost and Usage Report	AWS Budgets	Operational scaling	AWS Cost Explorer

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102	3	What is a characteristic of AWS Regions?	B	1	Single data center connectivity	Full redundancy and connectivity	Amazon S3	Partial redundancy and connectivity
103	3	Which AWS service is used for file storage?	B	1	Amazon EBS	Amazon EFS	Networking and Content Delivery	Amazon ECS
104	3	What AWS service category includes AWS Direct Connect?	B	1	Storage	Networking and Content Delivery	AWS IAM	Compute
105	3	Which AWS service ensures identity management?	B	1	Amazon EC2	AWS IAM	Building architectures	Compute
106	3	What is the AWS Management Console used for?	B	1	Managing user data	Accessing AWS services	Compliance monitoring	Resource exploration
107	3	Which AWS service handles compliance reporting?	B	1	IAM	AWS Artifact	Caching content closer to users	Compliance reports
108	3	What is the advantage of edge locations?	B	1	Reducing costs	Caching content closer to users	Optimizing cloud use	Caching content FAR TO CLIENT
109	3	What is the AWS Well-Architected Tool used for?	B	1	Monitoring resource use	Reviewing cloud architectures	Storage	Improving resource alignment
110	3	Which AWS service category includes AWS Fargate?	B	1	Storage	Compute	Running EC2 instances	NETWORK
111	3	What is the main purpose of AWS Lambda?	D	1	Running EC2 instances	Server computing	Managing SQL databases	Serverless computing
112	3	What is Amazon DynamoDB used for?	B	1	Managing SQL databases	NoSQL database management	Placeholder Option C	SQL database management
113	3	Explain the primary purpose of AWS Global Infrastructure.		3				
114	3	Describe the role of Availability Zones in AWS infrastructure.		3				
115	3	What is the significance of replicating data across AWS Regions?		3				
116	3	How does AWS ensure low-latency content delivery?		3				
117	3	Define an AWS Region and its components.		3				
118	3	What are the best practices for achieving fault tolerance in AWS?		3				
119	3	How are Availability Zones connected within an AWS Region?		3				
120	3	Discuss the typical size and capacity of an AWS data center.		3				
121	3	What are AWS Points of Presence, and why are they important?		3				
122	3	Provide an overview of the AWS service category: Compute.		3				
123	3	What role does Amazon CloudFront play in content delivery?		3				
124	3	Discuss the significance of Regional Edge Caches in AWS infrastructure.		3				
125	3	What factors should be considered when selecting an AWS Region?		3				
126	3	Differentiate between global and Regional AWS services.		3				
127	3	Explain the relationship between Regions and Availability Zones in AWS.		3				
128	3	Explain the different way we can interact with AWS.		4				
129	3	Explain the role of Edge locations in AWS		5				