SRM VALLIAMMAI ENGINEERING COLLEGE

SRM Nagar, Kattankulathur – 603 203

DEPARTMENT OF

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

QUESTION BANK

VI SEMESTER

1922607 – INTRODUCTION TO CLOUD COMPUTING

Regulation – 2019

Academic Year 2024 – 2025 EVEN

Prepared by

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SUBJECT : 1922607 – INTRODUCTION TO CLOUD COMPUTING

SEM / YEAR: VI / III

UNIT I - INTRODUCTION			
Introduction to Cloud Computing – Definition of Cloud – Evolution of Cloud Computing – Underlying Principles of Parallel and Distributed Computing – Cloud Characteristics – Elasticity in Cloud – On-demand Provisioning.			
PART-A (2 - MARKS)			
Q. No	**QUESTIONS**	**BTL**	**Competence**
1.	What is meant by the term Cloud Computing?	**BTL1**	**Remembering**
2.	What is Grid Computing?	**BTL2**	**Understanding**
3.	State the purpose of NCP.	**BTL2**	**Understanding**
4.	Mention the four key elements in parallel and distributed computing.	**BTL1**	**Remembering**
5.	Explain the challenges in Cloud technologies.	**BTL1**	**Remembering**
6.	Define Cloud Computing.	**BTL1**	**Remembering**
7.	Compare Parallel Computing and Centralized computing.	**BTL1**	**Remembering**
8.	List out the cluster design issues.	**BTL1**	**Remembering**
9.	Show the difference between thin and thick client.	**BTL1**	**Remembering**
10.	Draw a neat diagram for cloud components.	**BTL2**	**Understanding**
11.	Name the essential characteristics of cloud computing.	**BTL1**	**Remembering**
12.	Give the advantages of cloud computing.	**BTL2**	**Understanding**
13.	Highlight the importance of the term “cloud computing”.	**BTL2**	**Understanding**
14.	Identify any two advantages of distributed computing.	**BTL2**	**Understanding**
15.	Bring out the differences between private cloud and public cloud.	**BTL2**	**Understanding**
16.	Illustrate the evolutionary trend towards distributed and cloud computing.	**BTL2**	**Understanding**
17.	What are the characteristics of cloud architecture that separates it from traditional one?	**BTL2**	**Understanding**
18.	Interpret the cloud resource pooling.	**BTL2**	**Understanding**
19.	Outline the elasticity in cloud.	**BTL2**	**Understanding**
20.	Mention the difference between elasticity and scalability in cloud computing.	**BTL2**	**Understanding**
21.	Specify few drawbacks of grid computing.	**BTL2**	**Understanding**
22.	How is On Demand provisioning of resources applied in cloud computing?	**BTL2**	**Understanding**
23.	Assess the properties of Cloud Computing.	**BTL2**	**Understanding**
24.	Formulate the technologies on which cloud computing relies.	**BTL2**	**Understanding**

PART-B (13- MARKS)				
1.	Discuss in detail about view of cloud computing with neat diagram	**13**	**BTL1**	**Remembering**
2.	Explain in detail about Internet Software Evolution.	**13**	**BTL3**	**Applying**
3.	Illustrate about the elements of parallel computing with neat diagram.	**13**	**BTL3**	**Applying**
4.	Describe in detail about practical examples of cloud systems exist across market segments.	**13**	**BTL1**	**Remembering**
5.	Define and examine in detail about the multi core CPUs and multithreading technologies.	**13**	**BTL3**	**Applying**
6.	Illustrate in detail about parallel and distributed programming models.	**13**	**BTL2**	**Understanding**
7.	i) Describe the infrastructure requirements for Cloud computing. ii)What are the issues in cluster design? How can they be resolved?	**6** **7**	**BTL1**	**Remembering**
8.	i) Summarize in detail about the degrees of parallelism. ii) Discuss the application of high performance and high throughput system.	**6** **7**	**BTL3**	**Applying**
9.	i) Illustrate the cloud architecture in detail. ii)Describe the architecture of a cluster with suitable illustrations.	**6** **7**	**BTL2**	**Understanding**
10.	Explain about evolution of cloud computing in detail.	**13**	**BTL3**	**Applying**
11.	Explain in detail underlying principles of Parallel and Distributed Computing.	**13**	**BTL2**	**Understanding**
12	Explain in detail about the trends towards Cloud Computing.	**13**	**BTL3**	**Applying**
13	Give the importance of cloud computing and elaborate the different types of services offered by it.	**13**	**BTL4**	**Analyzing**
14	Explain in detail about characteristics of Cloud.	**13**	**BTL5**	**Evaluating**
15	Generalize the ideas of software environments for distributed systems and clouds.	**13**	**BTL6**	**Creating**
16	Explain the hardware architecture of parallel processing with a neat diagram.	**13**	**BTL3**	**Applying**
17	Explain the software architecture styles for distributed computing.	**13**	**BTL2**	**Understanding**
PART-C (15- MARK)				
1.	Explain in detail about hardware architecture of parallel processing with neat diagram.	**15**	**BTL5**	**Evaluating**
2.	Create and justify Cloud architecture application design with neat sketch.	**15**	**BTL6**	**Creating**
3.	Briefly Explain each of the cloud computing services. Identify two cloud providers by company name in each service category.	**15**	**BTL6**	**Creating**
4.	What are the components of distributed system? Draw and explain its layered view architecture.	**15**	**BTL4**	**Analyzing**
5.	Illustrate the architectural styles for distributed computing.	**15**	**BTL5**	**Evaluating**
UNIT II- VIRTUALIZATION				
Basics of Virtualization – Types of Virtualizations – Implementation Levels of Virtualization – Virtualization Structures – Tools and Mechanisms – Virtualization of CPU – Memory – I/O Devices – Virtualization Support and Disaster Recovery.				
PART-A (2 - MARKS)				

Q. No	QUESTIONS		BTL	Competence
1.	What is mean by Virtualization?		**BTL1**	**Remembering**
2.	Define SOA.		**BTL1**	**Remembering**
3.	Express the levels of virtualization.		**BTL2**	**Understanding**
4.	Define Web services.		**BTL1**	**Remembering**
5.	What is the purpose of WSDL and UDDI?		**BTL2**	**Understanding**
6.	What are the fundamental components of SOAP specification?		**BTL1**	**Remembering**
7.	List the essential principles of SOA architecture.		**BTL1**	**Remembering**
8.	Define REST and its working.		**BTL1**	**Remembering**
9.	State the most relevant technologies supporting service computing.		**BTL1**	**Remembering**
10.	What do you mean by systems of systems? Give examples.		**BTL1**	**Remembering**
11.	Identify the role of Web services in cloud technologies.		**BTL2**	**Understanding**
12.	Discuss the purpose of Publish-Subscribe Model.		**BTL2**	**Understanding**
13.	Specify the name of Web services tools.		**BTL2**	**Understanding**
14.	Distinguish between physical and virtual clusters.		**BTL2**	**Understanding**
15.	What are the benefits of virtualization in the context of cloud computing?		**BTL2**	**Understanding**
16.	Compare binary translation with full virtualization.		**BTL2**	**Understanding**
17.	How does the virtualization Support the Linux platform?		**BTL2**	**Understanding**
18.	Discuss on the support of middleware for virtualization.		**BTL2**	**Understanding**
19.	Discuss classification or taxonomy of virtualization at different levels.		**BTL2**	**Understanding**
20.	List the Merits of virtualization at various levels.		**BTL2**	**Understanding**
21.	Illustrate the three structures of virtualization.		**BTL2**	**Understanding**
22.	Differentiate full virtualization and para-virtualization.		**BTL2**	**Understanding**
23.	Define memory virtualization.		**BTL2**	**Understanding**
24.	Define Application virtualization.		**BTL1**	**Remembering**
PART-B (13- MARK)				
1.	Describe in detail about SOA and Web services.	**13**	**BTL3**	**Applying**
2.	Describe in detail about characteristics of virtualized environments.	**13**	**BTL3**	**Applying**
3.	Explain the working of public subscribe model.	**13**	**BTL1**	**Remembering**
4.	Illustrate the Web services technologies stack with neat sketch.	**13**	**BTL3**	**Applying**
5.	Explain what you understand the technologies that make up the core of today's web services.	**13**	**BTL3**	**Applying**
6.	Describe in detail about the REST a software architecture style for distributed systems.	**13**	**BTL3**	**Applying**
7.	What is virtualization? Describe about para and full virtualization architectures. Compare and contrast them.	**13**	**BTL1**	**Remembering**
8.	Summarize the virtualization for data center automation.	**13**	**BTL3**	**Applying**
9.	Analyze the pros and cons of virtualization in detail.	**13**	**BTL3**	**Applying**
10.	i) Explain about REST in detail. ii)Discuss fast deployment, effective scheduling and high-performance virtual storage in detail.	**7** **6**	**BTL3**	**Applying**
11.	Discuss in detail about the taxonomy of virtualization techniques.	**13**	**BTL1**	**Remembering**
12.	Explain in detail about virtualization tools and mechanism.	**13**	**BTL3**	**Applying**
13.	Illustrate the migration steps and performance effects involved in live VM.	**13**	**BTL2**	**Understanding**

14.	Analyze in detail about the implementation level of virtualization.	**13**	**BTL4**	**Analyzing**
15.	What is the difference between recovery time objective and recovery point objective? How do they depend on each other? Justify your answer with appropriate examples.	**13**	**BTL2**	**Understanding**
16.	Explain virtualization of CPU, Memory and I/O devices	**13**	**BTL2**	**Understanding**
17.	Discuss in detail about the types of virtualizations.	**13**	**BTL3**	**Applying**
	PART-C (15 -MARKS)			
1.	Highlight the key points and identify the distinctions in different approaches of virtualization levels. Discuss their relative advantages, shortcomings and limitations. Also identify example systems implemented at each level	**15**	**BTL4**	**Analyzing**
2.	Explain the technologies available for the design of application by following Service Oriented Architecture (SOA).	**15**	**BTL5**	**Evaluating**
3.	Explain the virtualization structure for i)Hypervisor and Xen Architecture ii)Binary Translation with Full Virtualization iii) Para-Virtualization with Compiler Support.	**15**	**BTL5**	**Evaluating**
4.	Give the importance of Virtualization Support and Disaster Recovery.	**15**	**BTL6**	**Creating**
5.	Explain Virtualization at various implementation levels.	**15**	**BTL5**	**Evaluating**
	UNIT III- CLOUD ARCHITECTURE, SERVICES AND STORAGE			
	Layered Cloud Architecture Design – NIST Cloud Computing Reference Architecture – Public, Private and Hybrid Clouds - laaS – PaaS – SaaS – Architectural Design Challenges – Cloud Storage – Storage-as-a-Service – Advantages of Cloud Storage – Cloud Storage Providers – S3			
	PART-A (2 - MARKS)			
1.	Define public clouds.		**BTL1**	**Remembering**
2.	Write in brief on community cloud.		**BTL1**	**Remembering**
3.	Define IaaS.		**BTL1**	**Remembering**
4.	State the types of clouds with proper examples?		**BTL1**	**Remembering**
5.	Why do we need a hybrid cloud? Specify.		**BTL1**	**Remembering**
6.	State the role of cloud auditor in cloud.		**BTL1**	**Remembering**
7.	What are the different layers available in cloud architecture design?		**BTL2**	**Understanding**
8.	Discuss any three features of IaaS		**BTL2**	**Understanding**
9.	Differentiate cloud consumer and cloud provider.		**BTL2**	**Understanding**
10.	Identify the major players involved in cloud computing.		**BTL2**	**Understanding**
11.	Demonstrate the need of private cloud.		**BTL1**	**Remembering**
12.	Show the interaction between the Actors in the cloud computing.		**BTL1**	**Remembering**
13.	List out the characteristics of SaaS.		**BTL1**	**Remembering**
14.	Why do we need cloud storage? Specify.		**BTL2**	**Understanding**
15.	Analyze the storage as a service.		**BTL2**	**Understanding**
16.	Point out major activities of cloud provider.		**BTL2**	**Understanding**
17.	Compare service aggregation and service arbitrage.		**BTL1**	**Remembering**
18.	Define cloud storage.		**BTL1**	**Remembering**
19.	Write down the services in IaaS.		**BTL1**	**Remembering**
20.	Identify the use of S3.		**BTL1**	**Remembering**
21.	Illustrate architecture of a cloud is developed using three layers.		**BTL2**	**Understanding**

22.	List the entities involved in the cloud platform.		**BTL1**	**Remembering**
23.	Mention the major actors involved in NIST reference model.		**BTL1**	**Remembering**
24.	What is service orchestration?		**BTL2**	**Understanding**
	PART-B (13- MARKS)			
1.	List the cloud deployment models and give a detailed note about them.	**13**	**BTL3**	**Applying**
2.	Discuss in detail about the categories of cloud computing.	**13**	**BTL1**	**Remembering**
3.	Describe service and deployment models of a cloud computing environment with illustrations.	**13**	**BTL3**	**Applying**
4.	Discuss about the Layered Cloud Architecture Design.	**13**	**BTL3**	**Applying**
5.	Summarize about the NIST Cloud Computing Reference Architecture.	**13**	**BTL1**	**Remembering**
6.	Discuss the Infrastructure-as-a-Service, Platform as a service and Software as a service.	**13**	**BTL3**	**Applying**
7.	Discuss the features of software as a Service and explain in detail about SaaS with example.	**13**	**BTL3**	**Applying**
8.	Briefly discuss the architectural design challenges of the cloud.	**13**	**BTL3**	**Applying**
9.	List and discuss the principles for designing public cloud, private cloud and hybrid cloud.	**13**	**BTL3**	**Applying**
10.	i)Give the diagram for Cloud Computing Reference Architecture. ii)Illustrate in detail about The Conceptual Reference Model of cloud.	**3** **10**	**BTL3**	**Applying**
11.	Analyze the challenges in architectural design of cloud.	**13**	**BTL4**	**Analyzing**
12.	Compare and Contrast: Public, Private and Hybrid clouds.	**13**	**BTL4**	**Analyzing**
13.	Evaluate in detail about Cloud Storage and Storage-as-a-Service – with advantages of Cloud Storage.	**13**	**BTL5**	**Evaluating**
14.	Explain with neat diagram about the Cloud Storage Providers and Amazon Simple Storage Service S3.	**13**	**BTL6**	**Creating**
15.	Explain in detail the various challenges faced while designing Architecture.	**13**	**BTL3**	**Applying**
16.	Describe in detail the community cloud and give its benefits.	**13**	**BTL2**	**Understanding**
17.	Distinguish three principal layers: Physical infrastructure, Software management infrastructure and User interface.	**13**	**BTL3**	**Applying**
	PART-C (15 -MARKS)			
1.	Explain about any one of the cloud storage providers.	**15**	**BTL5**	**Evaluating**
2.	Evaluate and contrast the merits and demerit of Cloud deployment models: public, private, hybrid.	**15**	**BTL5**	**Evaluating**
3.	Evaluate about the architectural design of compute and storage clouds.	**15**	**BTL5**	**Evaluating**
4.	Explain the challenges in cloud architectural design.	**15**	**BTL5**	**Evaluating**
5.	Under what circumstances should you prefer to use PaaS over IaaS? Formulate it with an example.	**15**	**BTL5**	**Evaluating**
	UNIT IV- RESOURCE MANAGEMENT			
Virtual Clusters and Resource Management – Physical versus Virtual Clusters – Live VM Migration steps and Performance Effects – Dynamic Deployment of Virtual Clusters - Inter Cloud Resource Management – Resource Provisioning and Resource Provisioning Methods – Global Exchange of Cloud Resources				

	PART-A (2 -MARKS)			
1.	What are the six layers of cloud services?		**BTL1**	**Remembering**
2.	List the five application areas in SaaS applications.		**BTL1**	**Remembering**
3.	State the different Resource Provisioning Methods.		**BTL1**	**Remembering**
4.	List the cloud Differences in the perspectives of providers, vendors, and users.		**BTL1**	**Remembering**
5.	Differentiate over provisioning and under provisioning of resources with an example.		**BTL2**	**Understanding**
6.	Discuss the demand resource provisioning with example. (VMs)		**BTL2**	**Understanding**
7.	Give the diagram for evolution of cloud services.		**BTL2**	**Understanding**
8.	What are the security challenges in cloud computing?		**BTL2**	**Understanding**
9.	Demonstrate any two storage services of cloud system.		**BTL2**	**Understanding**
10.	Illustrate password assurance testing.		**BTL2**	**Understanding**
11.	Define Intercloud.		**BTL1**	**Remembering**
12.	What are the challenges of intercloud.		**BTL2**	**Understanding**
13.	What is Resource Provisioning in cloud?		**BTL2**	**Understanding**
14.	What are the types of resource provisioning methods.		**BTL2**	**Understanding**
15.	What is Demand Driven resource provisioning.		**BTL2**	**Understanding**
16.	What is Event-Driven Resource Provisioning.		**BTL2**	**Understanding**
17.	What is Popularity-Driven Resource Provisioning.		**BTL2**	**Understanding**
18.	What are the Extended Cloud Computing Services.		**BTL2**	**Understanding**
19.	Illustrate the topological structure of the virtual LAN.		**BTL2**	**Understanding**
20.	Define physical cluster.		**BTL1**	**Remembering**
21.	Sketch the concept of a virtual cluster based on application partitioning.		**BTL2**	**Understanding**
22.	Compare physical versus virtual clusters.		**BTL2**	**Understanding**
23.	List the four steps to deploy a group of VMs onto a target cluster.		**BTL1**	**Remembering**
24.	Define guest-based manager.		**BTL1**	**Remembering**
	PART-B (13- MARKS)			
1.	Explain in detail about the Inter-cloud resource management.	**13**	**BTL3**	**Applying**
2.	Describe the Resource Provisioning and Platform Deployment.	**13**	**BTL2**	**Understanding**
3.	Explain in detail about virtual machine creation and management.	**13**	**BTL3**	**Applying**
4.	Describe the Interactions among VM managers for cloud creation and management; the manager provides a public API for users to submit and control the VMs.	**13**	**BTL3**	**Applying**
5.	Summarize the global exchange of cloud resources.	**13**	**BTL3**	**Applying**
6.	Examine about Extended Cloud Computing Services with neat block diagram.	**13**	**BTL3**	**Applying**
7.	Illustrate the following: i. Demand-Driven Resource Provisioning ii.Event-Driven Resource Provisioning iii.Popularity-Driven Resource Provisioning	**5** **5** **3**	**BTL3**	**Applying**
8.	Explain in detail about three cases of resource provisioning	**13**	**BTL2**	**Understanding**
9.	Illustrate Inter cloud architecture with a neat sketch.	**13**	**BTL5**	**Evaluating**
10.	Describe in detail three types of statements are provided by SAML	**13**	**BTL3**	**Applying**

11.	Explain in detail about cloud resource provisioning methods.	**13**	**BTL3**	**Applying**
12.	Relate physical clusters versus virtual clusters.	**13**	**BTL4**	**Analyzing**
13.	Illustrate the Live migration process of a VM from one host to another in detail with a neat sketch.	**13**	**BTL3**	**Applying**
14.	Discuss the Migration of Memory, Files, and Network Resources in detail.	**13**	**BTL5**	**Evaluating**
15.	Illustrate the live Migration of VM Using Xen with example.	**13**	**BTL3**	**Applying**
16.	Explain the Dynamic Deployment of Virtual Clusters with example.	**13**	**BTL2**	**Understanding**
17.	Illustrate the COD partitioning a physical cluster into multiple virtual clusters with example.	**13**	**BTL3**	**Applying**
	PART-C (15-MARKS)			
1.	Discuss different ways for cloud service providers to maximize their revenues.	**15**	**BTL5**	**Evaluating**
2.	Write down where SaaS is extremely useful and not useful.	**15**	**BTL5**	**Evaluating**
3.	Discuss the three critical design issues of virtual clusters.	**15**	**BTL5**	**Evaluating**
4.	Illustrate in detail about the Resource Provisioning and Platform Deployment.	**15**	**BTL1**	**Remembering**
5.	Discuss about different projects conducted at Purdue university.	**15**	**BTL5**	**Evaluating**
	UNIT V- SECURITY			
	Security Overview – Cloud Security Challenges – Software-as-a-Service Security – Security Governance – Virtual Machine Security – IAM – Security Standards – Cloud Security and Trust Management			
	PART-A (2 -MARKS)			
1.	What are the security challenges in cloud computing?		**BTL1**	**Remembering**
2.	Define security governance.		**BTL1**	**Remembering**
3.	In which three basic cloud security enforcements are expected? Clarify.		**BTL2**	**Understanding**
4.	Analyze the different security threats in implementing SAAS.		**BTL2**	**Understanding**
5.	Examine whether the virtualization enhances cloud security.		**BTL2**	**Understanding**
6.	Explain data privacy.		**BTL2**	**Understanding**
7.	Identify the phases of Sec SDLC.		**BTL2**	**Understanding**
8.	“Virtual machine is secured”. Is it true? Justify your answer.		**BTL2**	**Understanding**
9.	Generalize about the IAM.		**BTL2**	**Understanding**
10.	Name the different Security Standards.		**BTL2**	**Understanding**
11.	What is mutual authentication?		**BTL2**	**Understanding**
12.	Why cloud environment needs SSL/TLS?		**BTL1**	**Remembering**
13.	List the types of SAML queries.		**BTL1**	**Remembering**
14.	What are the types of statements are provided by SAML?		**BTL2**	**Understanding**
15.	What is Data integrity?		**BTL2**	**Understanding**
16.	List the security issues in cloud.		**BTL1**	**Remembering**
17.	What is the baseline security practices for the SaaS environment.		**BTL2**	**Understanding**
18.	Define Secure Software Development Life Cycle (SecSDLC).		**BTL1**	**Remembering**
19.	List phases of SecSDLC.		**BTL1**	**Remembering**
20.	What is Third-Party Risk Management.		**BTL1**	**Remembering**
21.	List the services across all technology layers.		**BTL1**	**Remembering**
22.	What is Vulnerability Assessment.		**BTL1**	**Remembering**
23.	List the frame works in Data Governance.		**BTL1**	**Remembering**

24.	What is Identity Access Management.		**BTL1**	**Remembering**
	PART-B (13 MARKS)			
1.	Discuss in detail about Software-as-a-Service Security.	**13**	**BTL3**	**Applying**
2.	Show what is Cloud Security Defense Strategies with neat diagram.	**13**	**BTL3**	**Applying**
3.	What is the purpose of IAM? Describe its functional architecture with an illustration.	**13**	**BTL4**	**Analyzing**
4.	Explain the Secure Software Development Life Cycle with neat diagram.	**13**	**BTL5**	**Evaluating**
5.	Write short note on cloud security challenges.	**13**	**BTL3**	**Applying**
6.	Write short notes on data security.	**13**	**BTL3**	**Applying**
7.	Write short on Virtual machine security.	**13**	**BTL3**	**Applying**
8.	Illustrate Secure Software Development Life Cycle (SecSDLC) in detail.	**13**	**BTL4**	**Analyzing**
9.	(i) Discuss Data governance in detail. (ii) Discuss Security Architecture design in detail.	**6** **7**	**BTL3**	**Applying**
10.	Discuss in detail about (i) Virtual Machine security (ii) Application security	**6** **7**	**BTL3**	**Applying**
11.	Explain about IAM and physical security in SaaS.	**13**	**BTL5**	**Evaluating**
12.	Demonstrate Security Assertion Markup Language (SAML) in security standards.	**13**	**BTL3**	**Applying**
13.	Elaborate Open Authentication (OAuth) and OpenID in security standards.	**13**	**BTL1**	**Remembering**
14.	Investigate about OpenID in security standards.	**13**	**BTL2**	**Understanding**
15.	Explain about SSL/TLS in security standards.	**13**	**BTL5**	**Evaluating**
16.	Discuss in detail about Cloud security defense strategies.	**13**	**BTL3**	**Applying**
17.	Discuss about distributed intrusion or anomaly detection in detail.	**13**	**BTL3**	**Applying**
	PART-C (15 MARKS)			
1.	Explain the security architecture design of a cloud environment and relate how it can be made possible to include such measures in a typical banking scenario.	**15**	**BTL6**	**Creating**
2.	Evaluate the security governance and virtual machine security.	**15**	**BTL5**	**Evaluating**
3.	Compare and Contrast the Key privacy issues in Cloud and explain the steps to overcome the issues with necessary examples.	**15**	**BTL5**	**Evaluating**
4.	Describe the benefits of different cloud Security standards. (SAML OAuth, OpenID, SSL/TLS).	**15**	**BTL6**	**Creating**
5.	Explain the cloud security challenges in detail.	**15**	**BTL5**	**Evaluating**