**Cloud Computing UNIT WISE IMPORTANT QUESTIONS**

**Question Bank**

**Unit I**

**Very Short Question**

1. Define multi core CPU?
2. Define datacenter growth and cost breakdown?
3. Difference between distributed and parallel computing?
4. List the design issues in clusters?
5. Define peer-to-peer network?

**Short Questions**

1. Discuss the difference between cluster, grid and cloud computing.
2. Explain cloud provider and cloud broker?
3. What is the role of cloud auditor?
4. Define private cloud?
5. Define public cloud?
6. Define hybrid cloud?
7. Why communication cloud is important?
8. List the design objectives of cloud computing?

**Long Question**

1. Explain the architecture and components of OpenNebula?
2. Explain the architecture of OpenStack system?
3. Discuss Eucalyputs, Nimbus, Open Nebula and Cloud Sim simulatiors in detail.
4. Explain the cloud computing service models?
5. Explain the NIST cloud computing reference architecture?
6. Explain the cloud eco system?

**Unit II**

**Very Short Question**

1. What is service level agreement (SLA)?
2. Discuss the term quality of service (QoS)?
3. Define anything-as-a-service?
4. What is mean by SaaS?
5. What is mean by IaaS?
6. Explain PaaS?

**Short Questions**

1. Define simple storage service (S3)?
2. What is per second billing concept?
3. Define Elastic Block Store (EBS)?
4. Define SQLAzure?
5. What is Communication as a Service?
6. Discuss Monitoring as a Service in brief.
7. Discuss the role of Sales force in SaaS.

**Long questions**

1. Explain the programming the Google App Engine?
2. Explain the Architecture of Google File System?
3. Explain the architecture of Amazon EC2 ?
4. Discuss various components of Microsoft Azure.
5. Explain the Microsoft Azure programming support?

**UNIT – III**

**Very Short question**

1. What is JSON?
2. What is LAMP?
3. What is LAPP?
4. List the cloud enabling technologies?
5. Explain the QoS factors in cloud?

**Short question**

1. What is the difference between SMTP, POP and IMAP?
2. Explain runtime support service?
3. What is smartphone?
4. Discuss various types of operating systems available for smart phones.

**Long question**

1. Discuss various types of online calendars available for online use.
2. Discuss online scheduling applications.
3. Discuss various online planning and task management services.
4. Explain the virtualization support and disaster recovery?
5. Explain the different methods of resource provisioning ?
6. Explain the provisioning of storage resources in detail?

**UNIT – IV**

**Very Short question**

1. What is Virtualization?
2. What are the levels of virtualization?
3. Define virtual machine monitor?
4. Write the relative merits of virtualization at various levels?
5. List the requirements of VMM?
6. What are the responsibilities of VMM?
7. What are the disadvantages of OS extension?
8. Define Hypervisor and Xen Server?
9. What is host based virtualization?
10. Define KVM?
11. Define CPU virtualization?
12. Define memory virtualization?
13. What is I/O virtualization?
14. What is the difference between parallel programming and distributed programming?
15. List the issues in parallel and distributed paradigms?

**Short question**

1. Differentiate full virtualization and para-virtualization?
2. Explain Host OS and Guest OS?
3. What is the difference between physical cluster and virtual cluster?
4. Define high performance virtual storage
5. Write the steps for live VM migration?
6. What is memory migration?
7. Define file system migration?
8. What is network migration?
9. How do you partition a single physical cluster into multiple virtual cluster?
10. Explain the server consolidation?
11. Define the three resource managers?
12. Define trust management in cloud computing?
13. Explain Instruction Set Architecture level of virtualization?
14. Explain hardware abstraction level of virtualization?
15. Explain operating system level of virtualization?
16. Explain library support level of virtualization?

**Long question**

1. Explain the different levels of virtualization implementation?
2. Explain the OS level virtualization? List the pros and cons of OS level virtualization?
3. Explain in details the tools and mechanisms for virtualization?
4. Explain the different types of virtualization in detail?
5. Explain the virtualization of CPU, Memory and I/O devices?
6. Explain the virtualization of multi core processor?
7. How do you manage the resources in virtual environment?
8. Explain the virtual clusters in detail?
9. You do you migrate memory, files, and network resources?
10. Explain the concept dynamic deployment of virtual clusters?
11. Explain the virtualization for data center automation?
12. Explain the trust management in virtual clusters?
13. Explain user application level of virtualization?

**UNIT – V**

**Very Short question**

1. What are the security challenges in cloud computing?
2. List the security issues in cloud?
3. Define security governance?
4. Explain the security awareness in cloud?
5. Define third party risk management?

**Short question**

1. What are the layers in security architecture design?
2. Define VM security?
3. Explain change management?
4. Define data privacy?

**Long Question**

1. Discuss the role of distributed task management task force.
2. Why Open cloud consortium formed?
3. Discuss mobile internet devices.
4. Explain the Security challenges in cloud computing in detail?
5. Explain the security architecture in detail?
6. Explain in detail about Software-as-a-Service security?
7. Explain the application security in detail?
8. Explain the data security and virtual machine security in detail?
9. Explain the identity management and access control in detail?