**Short Questions**

1. What is the major revolution introduced by Web 2.0?
2. What is Multi-tenancy?
3. Give two names of popular Software as a Service solutions.
4. List some driving factor toward clouds.
5. Define SSL.
6. What are the benefits of identity management?
7. How cloud helps to analyse Big Data?
8. What is Eucalyptus?
9. What is Virtual private cloud?
10. Write a short note on Microsoft Azure.
11. Write a short note on Community cloud and examples
12. Write a short note on Virtual Machine
13. Write a short note on Full Virtualization
14. Difference between elasticity and scalability in cloud computing
15. Write a short note on Xen
16. How does cloud computing differ from Internet?
17. What is multi-tenancy and its advantage?
18. What is on-demand self-service and resource pooling?
19. Differentiate full-virtualization and para-virtualization.
20. Write any two characteristics of private and public cloud.
21. What is the role of network manager in IaaS service layer?
22. Enlist the services that are provided by Amazon.
23. Why is hypervisor important? What is its role?
24. Mention the names of phases in SaaS maturity model.
25. Give any two examples of self-service.
26. Differentiate Cloud Computing and Internet.
27. How do multi-tenancy advantageous to the success of cloud computing?
28. What is resource pooling and rapid elasticity?
29. is API necessary in cloud computing?
30. Write any two characteristics of public cloud and hybrid cloud.
31. What is the role of resource scheduler in IaaS service layer?
32. Enlist the services that are provided by IBM Smart Cloud.
33. What is SSL?
34. What is the selection criterion for private cloud deployment model?
35. Give any two examples of self-service.
36. What is Cloud Computing?
37. What are the characteristics in cloud computing.
38. What are the different things to be taken to consideration before migrating into cloud platform.
39. Roots of Cloud Computing:
40. What is the difference between cluster and cloud computing ?
41. Differentiate between grid and cloud computing.
42. What are the benefits in cloud computing.
43. Discuss the functionality of various components of cloud infrastructure.
44. Discuss various cloud service models and prepare a comparative report of these models with example.
45. Explain cloud computing architecture and its various components with diagram.
46. Explain the NIST cloud reference architecture.
47. Explain Grid architecture
48. Explain hardware virtualization and network virtualization.
49. What are the advantages and disadvantages of FCFS ?
50. How cloud helps in e-Governance ?

**Long Questions**

1. What are the major distributed computing technologies that led to cloud computing?
2. Discuss classification of virtualization at different levels.
3. What is SaaS in Cloud computing? Explain different categories of SaaS.
4. What are the security aspects provided with cloud?  
   Classify the various types of clouds.
5. Before going for cloud computing platform what are the essential things to be taken in concern by users?
6. What are the disadvantages of virtualization?  
   What is IAAS? Explain its advantages and disadvantages.
7. 9 Write a note on :  
    Google Cloud platform.  
    Amazon Web Service
8. What pros and cons of Cloud computing in comparisons of Distributed and Grid computing?
9. What are different types of distributed computing systems before cloud computing?
10. What are the advantages of "Software as a Service" (SaaS)? Explain with example
11. How many types of deployment models are used in cloud? Which one is best and why?
12. What is AWS? What types of Services does it provides?
13. Describe the architecture of windows Azure.
14. What is SaaS in cloud computing? Explain the different categories of SaaS.
15. Why is virtualization important? Describe the characteristics of server virtualization and  
    application virtualization.
16. What is Service-Level Agreement (SLA)? Explain about the security controls classified  
    in cloud computing.
17. Explain the cloud deployment models in detail. Also, outline their advantages and disadvantages while implementing an application.
18. What is a middleware? How does it help to achieve compatibility between different software involved in cloud computing?
19. Design the architecture of PaaS and SaaS in cloud computing? Also, explain the different categories of PaaS and SaaS with example.
20. What is virtualization in cloud computing? Outline the characteristics of server  
    virtualization and application virtualization.
21. Discuss the following concepts in the context of cloud computing:  
    a) Billing and Metering Services  
    b) Tooling and automation
22. Draw the framework of common cloud management platform reference architecture and explain its components.
23. Write different types of internal security breaches in cloud computing. Also, explain the steps to reduce cloud security breaches.
24. Discuss, in detail, the cloud security reference model and explain how cloud security is integrated into the design of application.
25. Explain the cloud deployment models, in detail. Also, outline their benefits and limitations while implementing and application.
26. Explain cloud computing architecture and its various components with
27. diagram.
28. Discuss the functionality of various components of cloud infrastructure.
29. What are the characteristics in cloud computing.
30. What are the challenges in cloud computing.
31. Explain the technologies that work behind the cloud computing platform.
32. Cloud Deployment Model
33. Discuss the different deployment models of cloud computing
34. Discuss various cloud service models and prepare a comparative report of these models with example.
35. Describe the benefits and drawback of private cloud model.
36. Discuss the benefits and issues of community cloud model.
37. Explain PAAS with its benefits and drawbacks.
38. What is SAAS? Explain its advantages and disadvantages.
39. SAAS Maturity Model with neat diagram.
40. Explain the risk from multi-tenancy w.r.t various cloud environments.
41. What is Virtualization? Explain the technique of hardware virtualization.
42. Explain the life cycle of a virtual machine with suitable diagram.
43. Survey the major features of Google App Engine.
44. Describe the major features of Google App Engine.
45. Identify the stages of live migration of Virtual Machine.
46. Explain all the necessary stages of live migration of virtual machine.
47. Appraise Min-Min scheduling algorithm with suitable example.
48. Explain any two scheduling techniques with suitable example.
49. Elaborate the Amazon EC2 architecture and its various components.
50. Appraise the process of VM provisioning with schematic diagram.
51. What is the concept behind Virtualization? Explain the concept of hardware virtualization in detail with its sub type.
52. Explain the layered virtualization technology architecture with suitable diagram.
53. Examine the various privacy and security issues of cloud computing.
54. Compare and Contrast column oriented and document oriented database.
55. Column oriented and document oriented database
56. What is cloud database? Examine its different classifications based on transaction processing.
57. Analyze CAP theorem with necessary explanation.
58. Examine the functionalities of mobile cloud computing architecture with diagram.
59. Describe the framework of mobile cloud computing architecture with schematic diagram.
60. Explain in brief the meaning of Data Integrity, Data confidentiality, Data availability and data privacy.
61. What is cloud database? Explain SQL based and NoSQL based data model in cloud database.
62. Explain the risks and security issues arises in a cloud environment.
63. Discuss 5 points you will consider while choosing between private cloud and public cloud. Explain the reasons behind your selection criteria.  Provide examples.
64. Explain how Hybrid clouds can help an Enterprise. Provide examples.
65. Problems related scheduling algorithm
66. Which SaaS you are using currently or have used in the recent past? Please explain how you have enjoyed the service and what was the payment mode ?
67. How can IaaS help Startup organizations ? Explain with one cas
68. How PaaS can help higher-level programming? Explain with one case study.
69. Cloud is essential in smart agriculture - explain with a case study.
70. Cloud has remodeled the heath case systems -explain with a case study.