Important questions for CC

Unit - 1

1. Discuss in detail about distributed system models.
2. Explain the Layers of Cloud.
3. Explain the basic Cluster Architecture with a neat diagram.
4. Write a note on grid computing, distributed computing and parallel computing.
5. llustrate the characteristics of cloud Computing with examples.
6. Distinguish between Parallel Computing, Distributed Computing
7. Explain the basics of Peer 2 Peer Network Systems.
8. Explain the desired features of Cloud Computing.
9. Explain about Grid and Cluster Computing
10. Explain the Layers and Types of Clouds

Unit - 2

11. Outline the full and para-virtualization.
12. Sketch the architecture of computer systems before and after virtualization and explain it.
13. Explain in detail about Implementation Levels of virtualization.
14. What to consider before migrating to the cloud? Explain.
15. What are hardware virtualization techniques?
16. List and discuss different types of virtualization
17. Discuss the architecture of Hyper-V. Discuss its use in cloud computing.
18. Explain Seven-Step Model of Migration into a Cloud.
19. Explain the broad approaches to migrating into the cloud.
20. Explain about Virtual Machines Provisioning process.
21. Explain about Virtual Machines Migration services
22. Explain Virtual Storage Management with Neat Diagram.
23. What is a Virtual Machine? Explain virtualization of I/O Devices.
24. Difference between virtual cluster and physical cluster.
25. Explain Virtualization of CPU.

26. List out the different classes of virtualization architecture. Discuss in detail about the hypervisor and Xen architecture .
27. What are hardware virtualization techniques?
28. Explain how migration is done into cloud

Unit - 3

29. Classify the clouds based on the deployment model.
30. Discuss about the migration risk and mitigation.
31. Classify the cloud computing services.
32. How can cloud provide Infrastructure as a service (IAAS)? Explain.
33. What does the acronym SaaS mean? How does it relate to cloud computing?
34. Compare Public, Private and Hybrid Clouds.
35. Discuss the features of PaaS and IaaS providers.
36. Differentiate between Infrastructure as a Service (IAAS) & Platform (PAAS) with appropriate examples.
37. Discuss in brief about cloud computing and data security.
38. Analyze the Public Cloud and Infrastructure Services in Cloud.
39. Discuss about the integration of private and public clouds.
40. Explain SOA architecture and its features with a neat diagram.
41. Explain the Data Security Risks with suitable Examples
42. Explain architectural design of compute and storage clouds
43. Explain inter cloud resource management
44. Explain in detail about cloud security and trust management

Unit -4

45. Explain Aneka framework for cloud infrastructure.
46. Explain the features of Google App Engine.
47. Write a short note on the following: (i). Microsoft Azure (ii). Aneka Architecture
48. Write short notes on Amazon Elastic Block Store (EBS) and Simple DB
49. Explain about Parallel Computing and Programming Paradigms
50. Chubby, Google's Distributed Lock Service:
51. Write short notes on map reduce and its features
52. Platform Features Supported by Clouds and Grids
53. Write short notes on Amazon Simple Storage Service (S3)
54. Explain briefly about Google file system (GFS)

55. Write short notes on Big table

Unit - 5

56. Explain Policies and Mechanisms for Resource Management.
57. Write short notes on a). fair Queuing, b). Start Time Fair Queuing, c). Borrowed Virtual Time
58. Explain the concept of Feedback Control Based on Dynamic Thresholds.
59. Explain the difference between dynamic thresholds and proportional thresholds.
60. Write short notes on resource bundling with examples.
61. Explain combinatorial auctions for cloud resources.
62. Write a short note on cloud Scheduling Subject to Deadlines.
63. Explain scheduling algorithms for computing clouds.
64. Explain Coordination of Specialized Autonomic Performance Managers with a neat diagram.
65. Explain Stability of a Two-Level Resource Allocation Architecture with a neat sketch.