QUESTIONS

- 1. History of cloud computing.
- 2. Definition of cloud computing.
- 3. 5 characteristics of cloud computing.
- 4. Service models.
- 5. Deployment models.
- 6. Abstraction.
- 7. Virtualization.
- 8. Types of virtualization.
- 9. Native and full virtualization.
- 10. Hardware enabled virtualization.
- 11. Paravirtualization.
- 12. Operating system-level virtualization.
- 13. Amazon Web Services.
- 14. Microsoft Azure.
- 15. Google Cloud.
- 16. MaaS Metal as a Service.
- 17. How MaaS works.
- 18. Juju.
- 19. Web servers and load balancing.
- 20. Possible failure modes (request response).
- 21. Invocation semantics.
- 22. Implementation of abstractions.
- 23. Marshalling / unmarshalling.
- 24.HTTP.
- 25. SOAP.
- 26. REST.
- 27. JSON.
- 28. Ceph.
- 29. Hive.
- 30. Tez.
- 31.BLOB, object storages.
- 32. Swift API.
- 33. Amazon S3.
- 34. Amazon AWS instance store.
- 35. Amazon AWS EBS.
- 36. Amazon AWS Glacier.
- 37. Amazon AWS EFS.
- 38. Dropbox.
- 39. Spark.
- 40. Resilient Distributed Datasets.
- 41. Hortonworks.
- 42. HDFS.

- 43. MapReduce.
- 44. Consistency in a distributed system, fallacies of distributed computing.
- 45. Eric Brewer's CAP theorem.
- 46. Asynchronous network model.
- 47. Partially synchronous network model.
- 48. T-connected consistency.
- 49. ACID model.
- 50. BASE methodology.
- 51. Difference between virtual machines and containers. Describe the architecture of a system with virtual machines and containers.
- 52. Steps of creating a container. Dockerfile.
- 53. Steps of creating a container. Docker image.
- 54. Steps of creating a container. Docker container.
- 55. Life cycle of a container.
- 56. Creation and launching of a user-defined container.