MID – II

Question Bank

2 Marks

1. What is virtualization and what are its benefits?
2. What are the characteristics of virtualized environments?
3. Discuss classification or taxonomy of virtualization at different levels.
4. Discuss the machine reference model of execution virtualization.
5. What are hardware virtualization techniques?
6. List and discuss different types of virtualization.
7. What are the benefits of virtualization in the context of cloud computing?
8. What are the disadvantages of virtualization?
9. What is Xen?
10. Discuss Xen elements for virtualization.
11. Discuss the reference model of full virtualization.
12. Discuss the architecture of Hyper- V.
13. Discuss Hyper-V use in cloud computing.
14. What does the acronym XaaS stand for?
15. What are the fundamental components introduced in the cloud reference model?
16. What does Infrastructure-as -a-Service refer to?
17. Which are the basic components of an IaaS-based solution for cloud computing?
18. Provide some examples of IaaS implementations.
19. What are the main characteristics of a Platform-as-a-Service solution?
20. Describe the different categories of options available in a PaaS market.
21. What does the acronym SaaS mean?
22. How does SaaS relate to cloud computing?
23. Give the name of some popular Software-as-a-Service solutions.
24. Classify the various types of clouds.
25. Give an example of the public cloud.
26. Which is the most common scenario for a private cloud?
27. What kinds of needs are addressed by heterogeneous clouds?
28. Describe the fundamental features of the economic and business model behind cloud computing.
29. How does cloud computing help to reduce the time to market for applications and to cut down capital expenses?
30. List some of the challenges in cloud computing.
31. Describe in a few words the main characteristics of Aneka.
32. What is the Aneka container and what is its use?
33. Which types of services are hosted inside the Aneka container?
34. Describe Aneka’s resource-provisioning capabilities.
35. Describe the storage architecture implemented in Aneka.
36. What is a programming model?
37. List the programming models supported by Aneka.
38. Which are the components that com pose the Aneka infrastructure?
39. Discuss the logical organization of an Aneka Cloud.
40. Which services are hosted in a worker node?
41. Discuss the private deployment of Aneka Clouds.
42. Discuss the public deployment of Aneka Clouds.

10 Marks

1. Discuss in detail about Taxonomy of virtualization techniques. (10)
2. Explain about the cloud reference model and Infrastructure-as-a-service architecture. (10)
3. Discuss about Infrastructure-as-a-service and Platform as a service Reference Models. (10)
4. a. Give a brief note on Types of clouds. (5)
5. Write about various Open challenges in Cloud Technology. (5)
6. Explain about Anatomy of the Aneka container. (10)