

Faculty of Science & Technology -2022
Final Year B. Tech. [Information Technology] PART-II
ELECETIVE-IV [Cloud Computing]
Question Bank

1. Illustrate the history of Cloud Computing? Also differentiate between Traditional vs. Cloud Computing.
2. Why to choose Cloud Computing? State and explain the benefits of cloud computing?
3. Explain in details all the Cloud service models (IaaS, PaaS & SaaS).
4. Draw& explain Cloud deployment models (Public, Private, Hybrid and Community Cloud)?
5. State and justify the benefits and Challenges of Cloud Computing?
6. Draw and explain the role of virtualization in Cloud Computing?
7. Define Private Cloud also explain the Characteristics of Private Cloud?
8. State & explain the Private Cloud deployment models?
9. Draw & explain in detail the architecture and its compute, storage, networking, and IAM services of CloudStack?
10. Draw & explain in detail the architecture and its compute, storage, networking, and IAM services of OpenStack?
11. OpenStack: architecture and its compute, storage, networking, and IAM services.
12. Extend in detail the designing elastic, highly available, and resilient infrastructure using OpenStack?
13. Write short note on CloudStack for varied application scenarios.
14. Identify & explain the financial and technological implications of running an application on private cloud.
15. State & explain the Public Cloud deployment models?
16. When to opt for Public Cloud also explain the Public Cloud Service Models?
17. State & justify the services of Public Cloud Vendors?
18. Explain in detail the basic compute, storage, networking and IAM services of AWS?
19. Illustrate in detail the Microsoft Azure and Google Cloud platform?
20. Illustrate in detail the Google Cloud platform?
21. Justify in detail with example Designing elastic, highly available, and resilient infrastructure for varied application scenarios on AWS?
22. Justify in detail with example Designing elastic, highly available, and resilient infrastructure for varied application scenarios on Microsoft Azure?

23. Justify in detail with example Designing elastic, highly available, and resilient infrastructure for varied application scenarios on Google Cloud platform?
24. State and explain all the Financial and technological implications of running an application on public cloud.
25. Explain the security concerns in Traditional IT?
26. Illustrate the challenges in Cloud Computing in terms of Application Security?
27. Illustrate the challenges in Cloud Computing in terms of Server Security?
28. Illustrate the challenges in Cloud Computing in terms of Network Security?
29. Draw and illustrate the Security reference model for cloud computing?
30. Write short note on
 - a. Abuse and Nefarious Use of Cloud Computing
 - b. Insecure Interfaces and APIs
 - c. Malicious Insiders
 - d. Shared Technology Issues
 - e. Data Loss or Leakage
 - f. Account or Service Hijacking
 - g. Unknown Risk Profile
31. Draw & explain with example the security model between vendor and customer in IAAS?
32. Draw & explain with example the security model between vendor and customer in PAAS?
33. Draw & explain with example the security model between vendor and customer in SAAS?
34. Identify the reason behind Why Cloud for business perspective?
35. State & explain the Establishing your Cloud Vision with example?
36. Explain with example buying Cloud Services?
37. Illustrate with example understanding Cloud Risk?
38. Extend in detail the building ROI from Cloud Computing?
39. State & justify the Challenge and Cloud Computing in Use?
40. When and not to migrate to Cloud explain the detailed process?
41. State & justify the migration paths for cloud?
42. What is the selection criteria for cloud deployment explain the procedure with example?
43. State and explain the issues and risks in migrating to cloud computing.