

Scheme(15CS/UI/CC23 – Cloud Computing)

Section A

Answer all the questions (20x1=20)

Choose the correct answer

1. b. stateless
2. c. Both a & b
3. a. load balancers
4. d. Identity
5. a. PaaS
6. a. Squarespace.com
7. b. SAML
8. a. Atomicity
9. a. Board
10. c. Plaxo

Fill in the blanks

11. Abstraction
12. Composability
13. CCS-Cloud Control System
14. Workload
15. Salesforce.com
16. Presence
17. WSDL
18. ESB
19. hard drive
20. Zoho

Section B

Answer all the questions

(5x2=10)

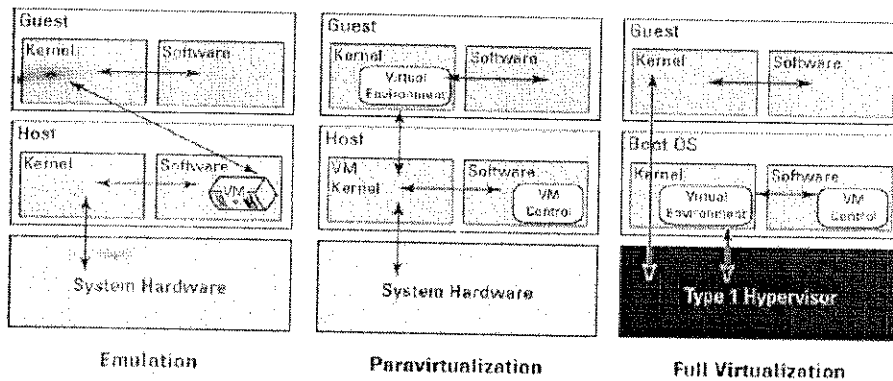
21. These standards help to enable different business models that cloud computing vendors can support, most notably SaaS, Web 2.0 applications, and utility computing. These businesses require open standards so that data is both portable and universally accessible
22. XML as the messaging format, SOAP protocol as the object model and a set of discovery and description protocols based on the WSDL to manage transactions.
23. Data management, Storage, Collaboration and Application development.
24. SOA describes a standard method for requesting services from distributed components and managing the results. Because the clients requesting services, the components providing the services, the protocols used to deliver messages, and the responses can vary widely, SOA provides the translation and management layer in an architecture that removes the barrier for a client obtaining desired services.
25. By utilizing cloud storage, users relinquish direct control over their data. Although a cloud storage provider is far less likely to have its data lost or compromised than

most individuals or organizations, people are still more comfortable knowing precisely where their critical data is located and who is personally responsible for it. Access to data stored on a distributed network is also constrained by the access to the Internet. Lower Internet bandwidth will result in decreased performance and an Internet service outage will completely sever an organization's access to its information.

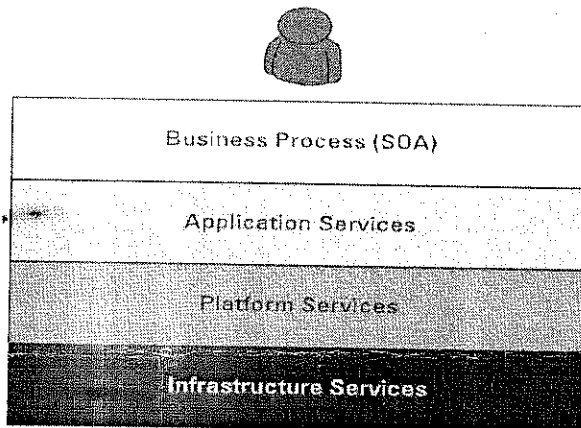
Section C

Answer any eight of the following (8x5=40)

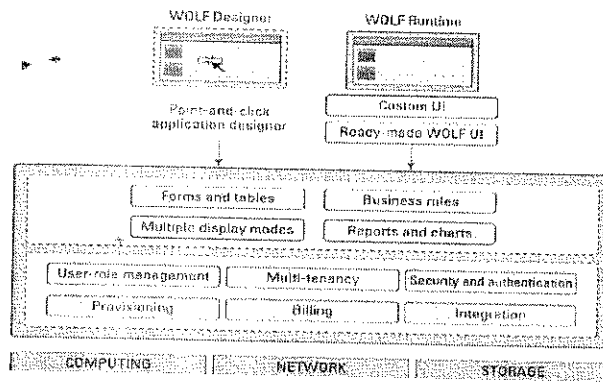
26. on-demand self-service, broad network access, resource pooling, rapid elasticity, measured service
27. HTTP, HTTPS, SOAP
28. emulation, paravirtualization and full virtualization.



29. Cloud computing ecosystem.



30. Discuss the broad range of services rendered by PaaS model.
Application development, Collaboration, Data management,
31. Web frameworks and Web platform architecture.
Based on three core web standard technologies for cloud computing:
AJAX, XML, .NET framework

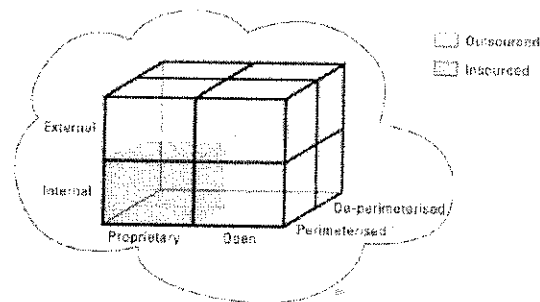
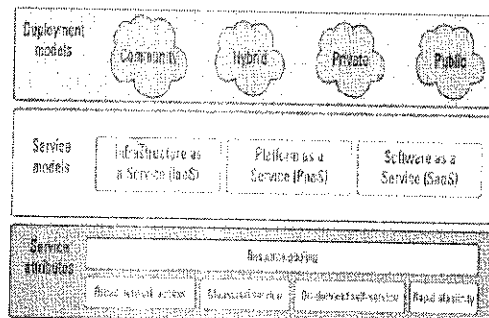


32. SOA management tools: HP s/w and solns. open view SOA manager, IBM Tivoli framework composite application manager for SOA, Oracle BPEL Process manager. SOA security: SAML, WSS, WS-SecureConversation, WS-Security Policy, WS-Trust
33. SOA2.0 or event-driven which extends SOA to include both random and scheduled events that are triggered by a business process outside of a business process. To perform tasks in SOA2.0, CVE with some built-in artificial intelligence must be added to the SOA design.
34. event management software on the cloud will take care of high volumes of outbound transaction (email newsletters, invitations, etc.) and inbound transactions (event bookings, modifications, cancellations, etc.), saving time and money, whilst giving delegates a smoother and improved experience. Event management applications: Website integration, event reporting, event badges, online registration.
35. A database accessible to clients from the cloud and delivered to users on demand via the Internet from a cloud database provider's servers. Also referred to as Database-as-a-Service (DBaaS), cloud databases can use cloud computing to achieve optimized scaling, high availability, multi-tenancy and effective resource allocation. Online Database Software and Moving Your Database Online.

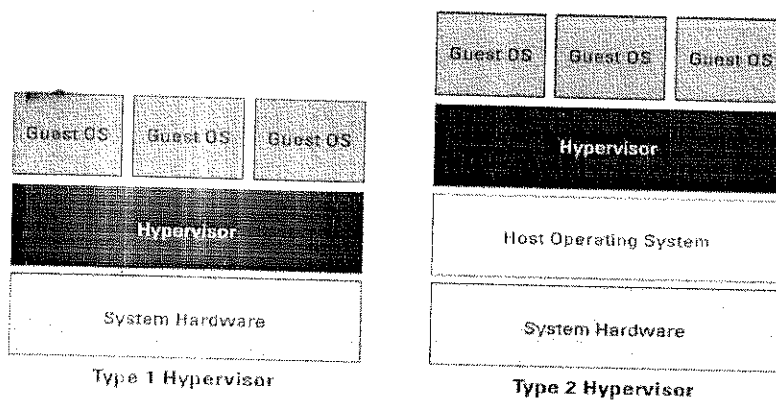
Section D

Answer any three of the following (3x10=30)

36. NIST model and Cloud cube model.



37. VMware's vSphere cloud computing infrastructure model.



38. Auditing, Data integrity, e-Discovery for legal compliance, Privacy, Recovery, Regulatory compliance
39. Many cloud deployments are hybrid applications: Part of the application is on a local system, and part is in the cloud. most common reasons is that the cloud can serve as excess capacity at times of high volume. In a reservation system, there is a certain low level of bg transactions occuring at any time. At certain times, events trigger high demand. If the system builds infrastructure to accommodate peak demand, then that infrastructure is wasted.
40. Sports team schedules, School schedules, community group schedules, event schedules and management
- Basic task management can be accomplished with applications such as HiTask (www.hifask.com) which originated as a friendly and easy-to-use task management system and Zoho Planner(planner.zoho.com). A Zoho Planner is an online planner with a calendar, to-do lists, pages, and email reminders for collaboration with other users. You can set email reminders to remind you when a task is due. You can strike off the task once it is done. For the most complicated projects, you can use dedicated project management applications, such as Basecamp(www.basecamphq.com) or Goplan (www.goplan.com)