

Cloud Computing MCQ

Unit1: Fundamentals of Cloud Computing

1. Which one of the following is not a feature of cloud computing?

- a. Reliability
- b. Agility
- c. Scalability
- d. Decentralization

Answer: d] Decentralization

2. What is full form of QoS?

- a. Quality of Service
- b. Quality of Scalability
- c. Quality of Simplicity
- d. None

Answer: a] Quality of Service

3. Which feature of cloud computing allow user to release the resources as soon as they are not needed?

- a. Self – Service
- b. Per-Usage Metering and Billing
- c. Elasticity
- d. Customization

Answer: b] Per-Usage Metering and Billing

4. Which feature of cloud computing allow to add additional resources when an application load increases?

- a. Self – Service
- b. Per-Usage Metering and Billing
- c. Elasticity
- d. Customization

Answer: c] Elasticity

5. Which of the following is an advantage of Public Cloud?

- a. Performance depends on speed of internet
- b. Lacks proper control
- c. Scalability
- d. Customization is not possible

Answer: c] Scalability

6. Internal Cloud or Corporate Cloud is also known as _____

- a. Community Cloud
- b. Private Cloud
- c. Scalability of Cloud
- d. Public Cloud

Answer: b] Private Cloud

7. A _____ shares the cloud infrastructure across the several organizations that has a common concerns.

- a. Community Cloud
- b. Private Cloud
- c. Scalability of Cloud
- d. Public Cloud

Answer: a] Community Cloud

8. Which one of the following has Single tenacy?

- a. Private Cloud
- b. Public Cloud
- c. Hybrid Cloud
- d. None

Answer. a] Private Cloud

9. Which one of the following is cloud service model?

- a. IaaS
- b. PaaS
- c. SaaS
- d. All of the Above

Answer. d] All of the Above

10. Which one of the following is not a leading vendor of IaaS?

- a. Amazon EC2
- b. Amazon S3
- c. Rackspace
- d. Microsoft Azure

Answer: d] Microsoft Azure

11. In which of the following cloud service model, applications reside on the top of the cloud stack?

- a. IaaS
- b. PaaS
- c. SaaS

d. None of the Above

Answer. c] SaaS

12. In architecture of Cloud Computing, what refers to the side of computer user or client?

- a. Front End
- b. Back End
- c. Server Side
- d. Client Side

Answer. a] Front End

13. Hypervisor acts as a _____

- a. Virtual Machine
- b. Virtual Machine Manager
- c. Virtual Transmitter
- d. Booting device

Answer: b] Virtual Machine Manager

14. What is the key component of the cloud infrastructure?

- a. Hypervisor
- b. Network
- c. Server
- d. Storage

Answer: b] Network

15. Which of the following are basic infrastructural constraints of Cloud Computing?

- a. Transparency



- b. Scalability
- c. both (a) and (b)
- d. None

Answer: c] both (a) and (b)

16. Which of the following is essential concept related to Cloud?

- a. Reliability
- b. Productivity
- c. Abstraction
- d. All of the mentioned

Answer: c] Abstraction

17. Which of the following can be identified as cloud?

- a) Web Applications
- b) Intranet
- c) Hadoop
- d) All of the mentioned

Answer: c] Hadoop

18. Which of the following is a specification for multicast discovery on a LAN?

- a) WS-Agent
- b) WS-Discovery
- c) WS-SOAP
- d) All of the mentioned

Answer: b] WS-Discovery

19. Which of the following is a third-party VPN based on Google's GoogleTalk?

- a) Hotspot VPN
- b) Gbridge
- c) AnchorFree Hotspot Shield
- d) All of the mentioned

Answer: b] Gbridge

20. A group of users within a particular instance is called _____
- a) suser
 - b) pod
 - c) superuser
 - d) all of the mentioned

Answer: b] pod

Unit 2: Virtualization

21. The machine on which the virtual machine is created is known as
- a. Host Machine
 - b. Guest Machine
 - c. Visitor Machine
 - d. None

Answer: a] Host Machine

22. The virtual machine is managed by a software or a firmware called as
- a. Hypervisor
 - b. Transmitter
 - c. Server
 - d. Network

Answer: a] Hypervisor

23. Which of the following is a component of Virtualization Reference Model?
- a. Guest
 - b. Host
 - c. Hypervisor
 - d. both (a) and (b)

Answer: d] both (a) and (b)

24. The ability to control execution of a guest programs in completely transparent manner is

- a. Increased Security
- b. Managed execution
- c. Portability
- d. None

Answer: a] Increased security

25. Which one of this typically a Hardware Virtualization Technique?

- a. Partial Virtualization
- b. Application level Virtualization
- c. Storage Virtualization
- d. All of the Above

Answer: a] Partial Virtualization

26. The most popular form of Network Virtualization is

- a. Virtual LAN
- b. Virtual IP
- c. Virtual Private Network
- d. All of the Above

Answer: a] Virtual LAN

27. VMware's technology is based on

- a. Full virtualization
- b. Partial virtualization
- c. Low level virtualization

d. None

Answer: a] Full virtualization

28. VMware supports virtualization of

- a. operating system environments
- b. single applications on end user computers
- c. both (a) and (b)
- d. None

Answer: c] both (a) and (b)

29. What is Microsoft Hyper-V?

- a. Server virtualization product
- b. Client virtualization product
- c. Server-side Hypervisor
- d. Client-side Hypervisor

Answer: a] Server virtualization product

30. What is full form of KVM?

- a. Kernel based Virtual Machine
- b. Kernel Visor Machine
- c. Kernel Virtual Map
- d. None

Answer: a] Kernel based Virtual Machine

31. Xen is an open source type-I or baremetal Hypervisor

- a. True
- b. False

Answer: a] True

32. The VM (virtual machine) is divorced from the.....

- a. underlying software
- b. overlying hardware
- c. underlying hardware
- d. overlying software

Answer: c] underlying hardware

33. Which of the following is a advantage of VM Management?

- a. Centralized Management
- b. Full compatibility with applications
- c. Saving Electrical energy
- d. All of Above

Answer: d] All of Above

34. Hyper-V is available in how many versions?

- a. three
- b. two
- c. five
- d. six

Answer: a] three

35. OS virtualization usually imposes overhead

- a. medium
- b. little
- c. little or no

d. high

Answer: c] little or no

36. Which of the following network resources can be load balanced?

- a. Connections through intelligent switches
- b. DNS
- c. Storage resources
- d. All of the mentioned

Answer: d] All of the mentioned

37. A _____ is a combination load balancer and application server that is a server placed between a firewall or router.

- a. ABC
- b. ACD
- c. ADC
- d. All of the mentioned

Answer: c] ADC

38. Which of the following provide system resource access to virtual machines?

- a. VMM
- b. VMC
- c. VNM
- d. All of the mentioned

Answer: a] VMM

39. Which of the following is Type 1 Hypervisor?

- a. Wind River Simics
- b. Virtual Server 2005 R2
- c. KVM
- d. LynxSecure

Answer: d] LynxSecure

40. Which of the following is another name for the system virtual machine?
- hardware virtual machine
 - software virtual machine
 - real machine
 - none of the mentioned

Answer: a] hardware virtual machine

Unit 3: Storage in Clouds

41. What is pool of cloud infrastructure resources designed specifically for enterprise business models?
- Virtual Machine (VM)
 - Virtualize Data Center (VDC)
 - Virtual Machine Manager (VMM)
 - None

Answer: b] Virtualize Data Center (VDC)

42. Benefits of VDC are
- Reduction of Cost
 - Pay Per Use model
 - High Efficiency
 - All of the Above

Answer: d] All of the Above

43. Advantages of Server Virtualization
- Reduced need for physical infrastructure
 - Possible memory over commits
 - Experienced staff needed
 - Security

Answer: a] Reduced need for physical infrastructure

44. Which of the following are the techniques of server virtualization?

- a. Hypervisor
- b. Para-Virtualization
- c. Full Virtualization
- d. All of the Above

Answer: d] All of the Above

45. External virtualization combines multiple network

- a. True
- b. False

Answer: a] True

46. Reduction of Hardware expense is a advantage of

- a. Server Virtualization
- b. Desktop Virtualization
- c. Network Virtualization
- d. All of the Above

Answer: c] Network Virtualization

47. RDS is also called as

- a. Terminal Services
- b. Denial Services
- c. Virtual Services
- d. None

Answer: a] Terminal Services

48. In which of the following separate virtual machine are provided to the user?

- a. RDS
- b. VDI
- c. VMware
- d. All of the Above

Answer: a] RDS

49. Storage Virtualization decreases storage utilization thereby reducing Total Cost of Ownership (TCO)

- a. True
- b. False

Answer: b] False

50. At how many layers Storage Virtualization can be implemented?

- a. two
- b. three
- c. six
- d. ten

Answer: a] three

51. Shared pools can be

- a. homogeneous
- b. heterogeneous
- c. both (a) and (b)
- d. None

Answer: c] both (a) and (b)

52. Storage Provisioning can be performed in two ways namely:

- a. Traditional Provisioning, Virtual Provisioning
- b. Traditional Provisioning, Thick Provisioning
- c. Virtual Provisioning, Thin Provisioning
- d. None

Answer: a] Traditional Provisioning, Virtual Provisioning

53. Which one of the following is the type of a service that manages and creates virtual network interfaces?

- a. VMware vStorage
- b. Application services
- c. VMware vCompute
- d. VMware vNetwork

Answer: d] VMware vNetwork

54. Which of the following types of applications works with cloud computing that has low risks, low margins?

- a. High touch
- b. Low touch
- c. Moderate touch
- d. All of the mentioned

Answer: b] low touch

55. What is full form of HDFS?

- a. Hadoop Distributed File System
- b. Hadoop Disturbed File System
- c. Hadoop Distributed File Server

d. Hadoop Disturbed File Server

Answer: a] Hadoop Distributed File System

56. Which of the following is storage data interchange interface for stored data objects?

- a. OCC
- b. OCCI
- c. OCMI
- d. All of the mentioned

Answer: b] OCCI

57. Cloud storage data usage in the year 2020 is estimated to be _____ percent resident by IDC.

- a. 10
- b. 15
- c. 20
- d. None of the mentioned

Answer: d] None of the mentioned

58. Redundancy has to be implemented at the _____ architectural level for effective results in cloud computing.

- a. lower
- b. higher
- c. middle
- d. all of the mentioned

Answer: b] higher

59. Which of the following disk operation is performed When a tenant is granted access to a virtual storage container?

- a. CRUD
- b. File system modifications
- c. Partitioning
- d. All of the mentioned

Answer: d] All of the mentioned

60. _____ data represents more than 50 percent of the data created every day.

- a. Shadow
- b. Light
- c. Dark
- d. All of the mentioned

Answer: a] Shadow

Unit 4: Cloud Monitoring and Management

61. When you deploy an application on Google's PaaS App Engine cloud service, the Administration Console provides you with the which of the following monitoring capabilities?

- a) View data and error logs
- b) Analyze your network traffic
- c) View the application's scheduled tasks
- d) All of the mentioned

Answer: d) All of the mentioned

62. Point out the wrong statement.

- a) In the cloud, the particular service model you are using directly affects the type of monitoring you are responsible for
- b) In AaaS, you can alter aspects of your deployment
- c) You can monitor your usage of resources through Amazon CloudWatch
- d) None of the mentioned

Answer: b) In AaaS, you can alter aspects of your deployment

63. Which of the following provides tools for managing Windows servers and desktops?

- a) Microsoft System Center
- b) System Service
- c) System Cloud
- d) All of the mentioned

Answer: a) Microsoft System Center

64. Which of the following is not a phase of cloud lifecycle management?

- a) The definition of the service as a template for creating instances
- b) Client interactions with the service
- c) Management of the operation of instances and routine maintenance
- d) None of the mentioned

Answer: d) None of the mentioned

65. Point out the wrong statement.

- a) Google App Engine lets you deploy the application and monitor it
- b) From the standpoint of the client, a cloud service provider is different than any other networked service
- c) The full range of network management capabilities may be brought to bear to solve mobile, desktop, and local server issues
- d) All of the mentioned

Answer: b) From the standpoint of the client, a cloud service provider is different than any other networked service

66. Which of the following is the Virtual machine conversion cloud?

- a) BMC Cloud Computing Initiative
- b) Amazon CloudWatch
- c) AbiCloud
- d) None of the mentioned

Answer: c) AbiCloud

67. _____ is Microsoft's cloud-based management service for Windows systems.

- a) Intune
- b) Utunes
- c) Outtunes
- d) Windows Live Hotmail

Answer: a) Intune

68. Which of the following is a virtualization provisioning system that will be rolled into Dell's AIM?

- a) Dell Scalent
- b) CloudKick
- c) Elastrra

d) All of the mentioned

Answer: a) Dell Scalent

69. Which of the following is used for Web site monitoring and analytics?

a) Gomez

b) Ganglia

c) Elastrata

d) None of the mentioned

Answer: a) Gomez

70. Which of the following is used for performance management for virtualized Java Apps with VMware integration?

a) Hyperic

b) Internetseer

c) RightScale

d) All of the mentioned

Answer: a) Hyperic

71. Which does C in FCAPS stand for?

a) Consistency

b) Contact

c) Configuration

d) None of the mentioned

Answer: c) Configuration

72. Point out the wrong statement.

a) Cloud computing deployments must be monitored and managed in order to be optimized for best performance

b) To the problems associated with analyzing distributed network applications, the cloud adds the complexity of virtual infrastructure

c) Cloud management software provides capabilities for managing faults

d) None of the mentioned

Answer: d) None of the mentioned

73. Which of the following aims to deploy methods for measuring various aspects of cloud performance in a standard way?

a) RIM

- b) SIM
- c) SMI
- d) All of the mentioned

Answer: c) SMI

74. Which of the following is not the feature of Network management systems?

- a) Accounting
- b) Security
- c) Performance
- d) None of the mentioned

Answer: d) None of the mentioned

75. Point out the correct statement.

- a) Cloud management includes not only managing resources in the cloud but managing resources on-premises
- b) The management of resources in the cloud requires new technology
- c) Management of resources on-premises allows vendors to use well-established network management technologies
- d) All of the mentioned

Answer: d) All of the mentioned

76. Which of the following package provides all five elements of FCAPS?

- a) FrameIt
- b) RackStar
- c) Unicenter
- d) None of the mentioned

Answer: d) None of the mentioned

77. _____ is a framework tool for managing cloud infrastructure.

- a) IBM Tivoli Service Automation Manager
- b) Microsoft Tivoli Service Automation Manager
- c) Google Service Automation Manager
- d) Windows Live Hotmail

Answer: a) IBM Tivoli Service Automation Manager

78. Which of the following “cloudly” characteristics that cloud management service must have?

- a) Billing is on a pay-as-you-go basis
- b) The management service is extremely scalable
- c) The management service is ubiquitous
- d) All of the mentioned

Answer: d) All of the mentioned

79. How many categories need to be monitored for entire cloud computing?

- a) 1
- b) 2
- c) 4
- d) None of the mentioned

Answer: d) None of the mentioned

80. Which of the following is a standard protocol for network monitoring and discovery?

- a) SNMP
- b) CMDB
- c) WMI
- d) All of the mentioned

Answer: d) All of the mentioned

Unit 5: Security in Cloud Computing

81. Which of the following service provider provides the least amount of built in security?

- a) SaaS
- b) PaaS
- c) IaaS
- d) All of the mentioned

Answer: c) IaaS

82. Point out the correct statement.

- a) Different types of cloud computing service models provide different levels of security services
- b) Adapting your on-premises systems to a cloud model requires that you

determine what security mechanisms are required and mapping those to controls that exist in your chosen cloud service provider

- c) Data should be transferred and stored in an encrypted format for security purpose

- d) All of the mentioned

Answer: d) All of the mentioned

83. Which of the following services need to be negotiated in Service Level Agreements?

- a) Logging
- b) Auditing
- c) Regulatory compliance

- d) All of the mentioned

Answer: d) All of the mentioned

84. In which environment do admins have the most control over cloud app security?

- a) SaaS
- b) PaaS
- c) IaaS

- d) All of the mentioned

Answer: b) PaaS

85. Point out the wrong statement.

- a) You can use proxy and brokerage services to separate clients from direct access to shared cloud storage
- b) Any distributed application has a much greater attack surface than an application that is closely held on a Local Area Network
- c) Cloud computing doesn't have vulnerabilities associated with Internet applications

- d) All of the mentioned

Answer: c) Cloud computing doesn't have vulnerabilities associated with Internet applications

86. Which of the following area of cloud computing is uniquely troublesome?

- a) Auditing
- b) Data integrity

- c) e-Discovery for legal compliance
- d) All of the mentioned

Answer: d) All of the mentioned

87. Which of the following is the operational domain of CSA?

- a) Scalability
- b) Portability and interoperability
- c) Flexibility
- d) None of the mentioned

Answer: b) Portability and interoperability

88. Which of the following is considered an essential element in cloud computing by CSA?

- a) Multi-tenancy
- b) Identity and access management
- c) Virtualization
- d) All of the mentioned

Answer: a) Multi-tenancy

89. Which of the following is used for Web performance management and load testing?

- a) VMware Hyperic
- b) Webmetrics
- c) Univa UD
- d) Tapinsystems

Answer: b) Webmetrics

90. Which of the following is application and infrastructure management software for hybrid multi-clouds?

- a) VMware Hyperic
- b) Webmetrics
- c) Univa UD
- d) Tapinsystems

Answer: c) Univa UD

91. Which of the following service provider provides the highest level of service?

- a) SaaS
- b) PaaS

- c) IaaS
- d) All of the mentioned

Answer: a) SaaS

92. Point out the correct statement.

- a) PaaS supplies the infrastructure
- b) IaaS adds application development frameworks, transactions, and control structures
- c) SaaS is an operating environment with applications, management, and the user interface
- d) All of the mentioned

Answer: c) SaaS is an operating environment with applications, management, and the user interface

93. Which of the following functional cloud computing hardware/software stack is the Cloud Reference Model?

- a) CAS
- b) CSA
- c) SAC
- d) All of the mentioned

Answer: b) CSA

94. For the _____ model, the security boundary may be defined for the vendor to include the software framework and middleware layer.

- a) SaaS
- b) PaaS
- c) IaaS
- d) All of the mentioned

Answer: b) PaaS

95. Point out the wrong statement.

- a) Each different type of cloud service delivery model creates a security boundary
- b) Any security mechanism below the security boundary must be built into the system
- c) Any security mechanism above the security boundary must be maintained by the customer

d) All of the mentioned

Answer: d) All of the mentioned

96. Which of the following model allows vendor to provide security as part of the Service Level Agreement?

a) SaaS

b) PaaS

c) IaaS

d) All of the mentioned

Answer: a) SaaS

97. Which of the following cloud does not require mapping?

a) Public

b) Private

c) Hybrid

d) None of the mentioned

Answer: a) Public

98. Which of the following service model is owned in terms of infrastructure by both vendor and customer?

a) Public

b) Private

c) Hybrid

d) None of the mentioned

Answer: c) Hybrid

99. Which of the following model type is not trusted in terms of security?

a) Public

b) Private

c) Hybrid

d) None of the mentioned

Answer: a) Public

100. Which of the following has infrastructure security managed and owned by the vendor?

a) Hybrid

b) Private/Community

c) Public

d) None of the mentioned

Answer: b) Private/Community

Unit 6: Trends & Future in Cloud Computing

101. The properties necessary to guarantee a reliable transaction in databases and other applications is referred to as _____

- a) BASE
- b) ACID
- c) ATOM
- d) All of the mentioned

Answer: b) ACID

102. Point out the wrong statement.

- a) In theory, any application can run either completely or partially in the cloud
- b) The location of an application or service plays a fundamental role in how the application must be written
- c) An application or process that runs on a desktop or server is executed coherently, as a unit, under the control of an integrated program
- d) None of the mentioned

Answer: d) None of the mentioned

103. Which of the following is property of ACID principle?

- a) Atomicity
- b) Consistency
- c) Isolation
- d) All of the mentioned

Answer: d) All of the mentioned

104. Which of the following ACID property states that the system must go from one known state to another and that the system integrity must be maintained?

- a) Atomicity
- b) Consistency
- c) Isolation
- d) Durability

Answer: b) Consistency

105. Point out the wrong statement.

- a) Taken as a unit, “Request => Process => Response” is not an atomic transaction
- b) A coherent transaction either succeeds and is enacted, or fails and is rolled back
- c) When rollback is not possible due to optimistic transaction commitment in a multiuser application, durability requires correcting the condition
- d) None of the mentioned

Answer: a) Taken as a unit, “Request => Process => Response” is not an atomic transaction

106. Which of the following component is required for both online and local data access in hybrid application?

- a) local
- b) cloud
- c) both local and cloud
- d) none of the mentioned

Answer: c) both local and cloud

107. Which of the following factors might offset the cost of offline access in hybrid applications?

- a) scalability
- b) costs
- c) ubiquitous access
- d) all of the mentioned

Answer: d) all of the mentioned

108. An application that needed _____ storage alone might not benefit from a cloud deployment at all.

- a) online
- b) offline
- c) virtual
- d) all of the mentioned

Answer: b) offline

109. The _____ property states that the system must have a mechanism to recover from committed transactions should that be necessary.

- a) Atomicity
- b) Consistency
- c) Isolation
- d) Durability

Answer: d) Durability

110. Which of the following property defines a transaction as something that cannot be subdivided and must be completed or abandoned as a unit?

- a) Atomicity
- b) Consistency
- c) Isolation
- d) Durability

Answer: a) Atomicity

111. Which of the following systems allow short text messages to be exchanged?

- a) SMS
- b) IMS
- c) JVS
- d) All of the mentioned

Answer: a) SMS

112. Point out the correct statement.

- a) Aggregation also can be done within software creating a custom Web page
- b) The Add Stuff link in iGoogle takes you to the content management system
- c) When you return to iGoogle, the feed appears within an Ajax frame that can be moved around on the page or moved to additional tabs that you can create
- d) All of the mentioned

Answer: d) All of the mentioned.

113. _____ builds on the older concept of Internet chat to add a more immediate response to text messages between individuals and groups.

- a) VM
- b) IM
- c) SM

d) None of the mentioned

Answer: b) IM

114. Which of the following can be a form of Instant messaging application?

- a) Discrete instant messaging desktop clients
- b) Enterprise messaging services
- c) Browser-based IM clients
- d) All of the mentioned

Answer: d) All of the mentioned

115. Point out the wrong statement.

- a) Syndicated content appears in iGoogle inside Ajax frames that can be arranged in pages
- b) RSS and Atom are prototypes of a class of XML specifications called syndication markup languages
- c) Webmail services are often free, browser-based, and platform-independent
- d) None of the mentioned

Answer: d) None of the mentioned

116. Which of the following standard does Azure use?

- a) REST
- b) XML
- c) HTML
- d) All of the mentioned

Answer: d) All of the mentioned

117. Point out the wrong statement.

- a) An Amazon Machine Image can be provisioned with an operating system, an enterprise application, or application stack
- b) AWS is a deployment enabler
- c) Google Apps lets you create a scalable cloud-based application
- d) None of the mentioned

Answer: d) None of the mentioned

118. What does IPsec in the Azure platform refer to?

- a) Internet Protocol Security protocol suite
- b) Internet Standard
- c) Commodity servers
- d) All of the mentioned

Answer: a) Internet Protocol Security protocol suite

119. Which of the following is an edge-storage or content-delivery system that caches data in different physical locations?

- a) Amazon Relational Database Service
- b) Amazon SimpleDB
- c) Amazon Cloudfront
- d) Amazon Associates Web Services

Answer: c) Amazon Cloudfront

120. Which of the following allows you to create instances of the MySQL database to support your Web sites?

- a) Amazon Elastic Compute Cloud
- b) Amazon Simple Queue Service
- c) Amazon Relational Database Service
- d) Amazon Simple Storage System

Answer: c) Amazon Relational Database Service

1. Out of these, which one is the most restrictive and refined service model?

- a) SaaS
- b) IaaS
- c) CaaS
- d) PaaS

Answer: (d) PaaS

2. Cutting latency into half would require _____ times the total number of nodes in any system.

- a) seven
- b) four
- c) three
- d) two

Answer: (b) four

3. When an organization moves expenses onto the _____ side of their budget, it allows them to transfer the overall risk to the provider of their cloud computing services.

- a) Pex
- b) Dex
- c) OpEx
- d) All of the above

Answer: (c) OpEx

4. The largest provider of _____ CRM software is Salesforce.com.

- a) SaaS
- b) CaaS
- c) IaaS
- d) PaaS

Answer: (a) SaaS

5. The Amazon Machine Images are basically virtual appliances that are packaged for running on the _____ nodes grid.

- a) Ken
- b) Ben
- c) Zen
- d) Xen

Answer: (d) Xen

6. Choose the one which is a potent technology for cloud-building.

- a) HyperCube
- b) vCube
- c) vSphere
- d) All of the above

Answer: (c) vSphere

7. Which one out of the following is available both as the commercial version and open source?

- a) ZenOSS
- b) SiteUpTime
- c) Zabbix
- d) All of the above

Answer: (a) ZenOSS

8. An organization can deploy one of these to speed up both Internet local and (Intranet) searching. Which one?

- a) Google Commerce Search
- b) Google Site Search
- c) Google Mini
- d) Google Search Appliance

Answer: (d) Google Search Appliance

9. “Deep Web” does not provide which of the following?

- a) Pages without links
- b) Limited or Private Access Web pages
- c) Database Generated Web pages
- d) All of the above

Answer: (d) All of the above

10. What data does CloudFront support via static data transfers and content streaming from any CloudFront location to another?

- a) geocaching
- b) table caching
- c) windows Media Server
- d) index caching

Answer: (a) geocaching

11. Choose the correct statement from the following.

- a) We can access the data stored in the SQL Azure database using the CDS (Columnar Data Stream) protocol.
- b) The queries against numerous databases are unified.
- c) Every SQL Azure Database has a current limit of 1TB each.
- d) All of the above

Answer: (c) Every SQL Azure Database has a current limit of 1TB each.

12. The _____ initiative tries providing a way in which the cloud computing services can be measured along dimensions such as cost?

- a) OCCI
- b) SMI
- c) CCE
- d) All of the above

Answer: (b) SMI

13. What do we use for load testing and Web performance management?

- a) Web metrics
- b) VMware Hyperic
- c) TapIn Systems
- d) Univa UD

Answer: (a) Web metrics

14. Out of these combinations, which one is possible in the WebSphere ESB?

- a) SOAP/HTTP
- b) Governance
- c) SOAP/JMS
- d) XML/JMS

Answer: (c) SOAP/JMS

15. The topology that is useful for services using multicasting or broadcasting services is _____.

- a) Star
- b) Network
- c) Hierarchical
- d) Circular

Answer: (a) Star

16. _____ is a second-level attribute related to scalability.

- a) Geographic location
- b) Expertise
- c) Caching
- d) Fault management

Answer: (b) Expertise

17. Which one of these isn't a second-level cloud attribute related to Storage?

- a) Language and locale
- b) Replication
- c) SQL support
- d) Non-relational

Answer: (a) Language and locale

18. Which of these presents a developer with its own APIs?

- a) VMWare vCloud
- b) Rackspace Cloud Servers
- c) RimuHosting
- d) Amazon Elastic Compute

Answer: (b) Rackspace Cloud Servers

19. Which interface converts the XAM requests to native commands that the storage hardware OS supports?

- a) XAM
- b) RIM
- c) VIM
- d) All of the above

Answer: (c) VIM

20. Which one is a Managed cloud storage provider?

- a) Simple Storage Service from Amazon.com
- b) Smart Business Storage Cloud from IBM
- c) EMC Atmos
- d) All of the above

Answer: (d) All of the above

21. The RSS module uses which of these file formats?

- a) JSON
- b) XML
- c) SMIL
- d) All of the above

Answer: (b) XML

22. Google Talk uses which of these protocols for Google Chat IM clients?

- a) Jabber
- b) Jaspersoft
- c) QuickTime
- d) None of the above

Answer: (a) Jabber

23. Find which of these services is the push technology's example?

- a) HTTP streaming
- b) Automated software updates
- c) Comet
- d) All of the above

Answer: (d) All of the above

24. Choose the one that is the open-system, most popular alternative to systems such as BlackBerry OS or iOS?

- a) Solaris
- b) Android OS
- c) Symbian
- d) All of the above

Answer: (b) Android OS

25. _____ is Adobe's application suite for various cloud-based applications?

- a) Openoffice
- b) Gpdf
- c) Acrobat.com
- d) All of the above

Answer: (c) Acrobat.com

1. Identify the deployment model among the following.

- A. Private
- B. Public
- C. Hybrid
- D. All of the above

Answer: D) All of the above are deployment models.

2. Choose among the following which is related to services provided by the cloud.

- A. Reliability
- B. Souring
- C. Ownership
- D. AaaS

Answer: B) Sourcing is related to services provided by the cloud.

3. Choose the correct IaaS provider among the following.

- A. EC2
- B. EC1
- C. EC10
- D. Hybrid

Answer: A) EC2 is the IaaS service provider.

4. Identify among the components which are known as a hypervisor.

- A. VMC
- B. VMM
- C. VC
- D. All of the above

Answer: B) VMM is known as the hypervisor.

5. Choose the correct relationship of cloud services to customers.

- A. One-One
- B. One-Many
- C. Many-one
- D. Many-Many

Answer: B) Cloud services are one-to-many relationships with their customers.

6. Which of the following refers to network or internet?

- A. Cloud
- B. CRM
- C. Cloud computing
- D. Computing

Answer: C) Cloud computing refers to the network or internet.

7. State whether true or false: Is google docs a type of cloud computing?.

- A. True
- B. False

Answer: A) True. Google doc is a type of cloud computing.

8. What does the term “elasticity” in cloud computing refer to?

- A. Ability to scale down
- B. Parallel
- C. Ability to scale up
- D. Both a and c are correct

Answer: D) Elasticity means the ability to scale down or scale-up.

9. Identify among the following, which are examples of IaaS cloud computing

- A. Linode
- B. Cisco meta cloud
- C. Digital ocean
- D. All of the above

Answer: D) All of the above are examples of IaaS cloud computing.

10. Identify among the following, which are examples of SaaS cloud computing.

- A. Dropbox
- B. Salesforce
- C. Google workshop
- D. All of the above

Answer: D) All of the above are examples of SaaS cloud computing.

11. Identify among the following, which are examples of PaaS cloud computing

- A. Heroku
- B. Google App Engine
- C. AWS Elastic Beanstalk
- D. All of the above

Answer: D) All of the above are examples of PaaS cloud computing.

12. Choose among the following, which are the characteristics of IaaS.

- A. Highly scalable
- B. Flexible and dynamic platform
- C. Facilitates hardware access to many users
- D. All of the above

Answer: D) All of the above are characteristics of IaaS.

13. Choose whether true or false: To balance load, DNS is a network resource.

- A. True
- B. False

Answer: A) True. DNS is a network resource, which is used to balance the load.

14. In cloud computing, the client is on which end.

- A. Backend
- B. Frontend
- C. Depends
- D. Both a and b

Answer: B) Client is on the front end.

15. In which year was Google Compute Engine released?

- A. 2012
- B. 2009
- C. 2015
- D. 2006

Answer: A) Google Compute Engine was released in 2012.

16. What is the most important concern of cloud computing?

- A. Cost
- B. Space
- C. Security
- D. Platform

Answer: C) Security is the most important concern of cloud computing.

17. Total types of cloud computing services are?

- A. 1
- B. 2
- C. 3
- D. 4

Answer: D) There are a total of 4 cloud computing services - public, private, hybrid, multi-clouds.

18. PaaS stands for?

- A. Platform as a service
- B. Platform as a software
- C. Parallel as a service
- D. None

Answer: A) PaaS stands for Platform as a service.

19. The term “hybrid cloud” refers to?

- A. Private cloud
- B. Public cloud
- C. Combination of private and public cloud
- D. None

Answer: C) Hybrid cloud refers to the combination of private and public cloud.

20. Identify the technique used for creating cloud computing.

- A. Insubordination
- B. Cannibalization
- C. Virtualization
- D. Transubstantiation

Answer: C) Virtualization is the technique used for creating cloud computing.

21. Total steps of deployment stage in cloud computing are?

- A. 3
- B. 4
- C. 5
- D. 6

Answer: B) The total deployment stage in cloud computing is 4.

22. Identify among the following, which provides a runtime environment.

- A. IaaS
- B. SaaS
- C. PaaS
- D. XaaS

Answer: C) PaaS provides a runtime environment for applications.

23. SAN stands for _____

- A. Storage area network
- B. Security area network
- C. Switch application network
- D. None

Answer: A) SAN stands for Storage area network.

24. Identify the most basic level of storage.

- A. NAS
- B. SAN
- C. DAS
- D. iSCSI

Answer: C) DAS is the most basic level of storage.

25. Identify the storage technologies among the following which have the best performance.

- A. NAS
- B. SAN
- C. DAS
- D. None

Answer: B) SAN has the best performance among all others.

26. Among the following layers, which are not related to SAN architecture.

- A. Storage layer
- B. Host layer
- C. Fabric layer
- D. Object layer

Answer: D) Object layer is not related to SAN architecture.

27. Among the following, which provides the GUI for interaction with the cloud.

- A. Server
- B. Client
- C. Client infrastructure
- D. Application

Answer: C) Client infrastructure provides the GUI for interaction with the cloud.

28. Choose among the following options, on which utility computing is based.

- A. Virtual isolation model
- B. Grid Computing model
- C. Pay-per use model
- D. SOA

Answer: D) Utility computing is based on SOA.

29. On what is cloud computing-based.

- A. Modulation
- B. Hybridization
- C. Virtualization
- D. Multiplexing

Answer: C) Cloud computing is based on virtualization.

30. Which of the following is a cloud?

- A. Hadoop
- B. Web applications
- C. Intranet
- D. None

Answer: A) Hadoop can be considered as a cloud.

31. SaaS stands for?

- A. Scalability as a service
- B. Software as a service
- C. Service as a software
- D. None

Answer: B) SaaS stands for Software as a service.

32. Total types of hypervisors are?

- A. 2
- B. 3
- C. 4
- D. 5

Answer: A) There are two types of hypervisors.

33. Total types of PaaS are?

- A. 2
- B. 3
- C. 4
- D. 5a

Answer: C) There are four types of hypervisors.

34. QPS stands for?

- A. Query period sites
- B. Quantum per second
- C. Quality Per Service
- D. Query per second

Answer: D) QPS stands for Query per second.

35. Choose the most important use of cloud computing.

- A. Data privacy
- B. Data storage
- C. Cost-effective
- D. Security

Answer: B) Data storage is the most important use of cloud computing.

36. Which of the following is a cloud platform by amazon?

- A. Cloudera
- B. Azure
- C. AWS
- D. All of the above

Answer: C) Amazon provided AWS cloud service.

37. Identify among the following, which monitors the performance of major cloud-based services in real-time.

- A. CloudMetrics
- B. CloudSensor
- C. CloudWatch
- D. None

Answer: B) CloudSensor monitors the performance of major cloud-based services in real-time.

38. GAE stands for?

- A. Google apps engine
- B. Google applied to engineer
- C. Google architecture engineering
- D. None

Answer: A) GAE stands for Google apps engine.

39. Identify the most restrictive and most refined cloud service model.

- A. IaaS
- B. XaaS
- C. SaaS
- D. PaaS

Answer: D) PaaS is the most restrictive and most refined cloud service model.

40. Which of the following terms refers to the management and location of cloud infrastructure.

- A. Application
- B. Deployment
- C. Service
- D. None of the above

Answer: B) Deployment refers to the management and location of cloud infrastructure.

41. What are the types of dimensions in Cloud Cube?

- A. 2
- B. 3
- C. 4
- D. 5

Answer: C) There are 4 types of dimensions in Cloud Cube.

42. Choose whether True or False: IaaS service model is followed when a service concentrates on hardware.

- A. True
- B. False

Answer: A) True. When a service concentrates on hardware, IaaS is used.

43. IaaS stands for?

- A. Information as a service
- B. Infrastructure as a service
- C. Infrastructure as a software
- D. None

Answer: B) IaaS stands for Infrastructure as a service

44. Identify the highest degree of integration of cloud computing.

- A. SaaS
- B. PaaS
- C. IaaS
- D. CaaS

Answer: A) SaaS is the highest degree of integration of cloud computing.

45. Choose among the following which allows the different OS to run in their memory space.

- A. VMS
- B. VMS
- C. VMM
- D. All of the above

Answer: C) VMM allows the different OS to run in their memory space.

46. Identify the VM monitor and CPU emulator among the following.

- A. Parallels
- B. QEMU
- C. VMS
- D. None

Answer: B) QEMU is the VM monitor and CPU emulator.

47. Identify the Type 1 hypervisor among the following.

- A. KVM
- B. Virtual Server 2005 R2
- C. Wind River Simics
- D. KVM

Answer: D) KVM is the Type 1 hypervisor.

48. IT Architecture Development comes under which of the following phases.

- A. Planning phase
- B. Development phase
- C. Strategy phase
- D. Testing phase

Answer: A) IT Architecture Development under planning phase.

49. Total types of cloud architecture are?

- A. 1
- B. 2
- C. 3
- D. 4

Answer: B) There is a total of two types of cloud architecture - frontend and backend.

50. By whom is the backend used primarily?

- A. User
- B. Service provider
- C. Client
- D. Stockholders

Answer: B) Backend is used primarily by Service provider

1) What type of computing technology refers to services and applications that typically run on a distributed network through virtualized resources?

- A. Distributed Computing
- B. Cloud Computing
- C. Soft Computing
- D. Parallel Computing

Answer: B

Explanation: Cloud computing is a computing technique in which applications are accessed by common internet protocols and networking standards.

2) Which one of the following options can be considered as the Cloud?

- A. Hadoop
- B. Intranet
- C. Web Applications
- D. All of the mentioned

Answer: A

Explanation: Whenever any intranet becomes large enough in size that a diagram is not able to differentiate the individual physical system, so at that stage intranet also becomes known as a cloud. Hadoop can be considered as a cloud.

3) Cloud computing is a kind of abstraction which is based on the notion of combining physical resources and represents them as _____resources to users.

- A. Real
- B. Cloud
- C. Virtual
- D. none of the mentioned

Answer: C

Explanation: Cloud Computing is a kind of new model for providing resources for applications such as staging applications, platform-independent user access to services.

4) Which of the following has many features of that is now known as cloud computing?

- A. Web Service
- B. Softwares
- C. All of the mentioned
- D. Internet

Answer: D

Explanation: Internet provides the abstraction, runs through the same set of protocols and standards, and uses the same operating system and applications.

5) Which one of the following cloud concepts is related to sharing and pooling the resources?

- A. Polymorphism
- B. Virtualization
- C. Abstraction
- D. None of the mentioned

Answer: B

Explanation: The application runs on physical systems that are not specified in real. The information stored in the locations that are also not specified or unknown, administration of the systems is outsourced to others and can be accessed by the user.

6) Which one of the following statements is not true?

- A. The popularization of the Internet actually enabled most cloud computing systems.
- B. Cloud computing makes the long-held dream of utility as a payment possible for you, with an infinitely scalable, universally available system, pay what you use.
- C. Soft computing addresses a real paradigm in the way in which the system is deployed.
- D. All of the mentioned

Answer: C

Explanation: Cloud computing is distinguished by the notion that resources are virtual and infinite and describe the physical systems on which software runs in the abstracted manner from the user.

7) Which one of the following can be considered as a utility is a dream that dates from the beginning of the computing industry itself?

- A. Computing
- B. Model
- C. Software
- D. All of the mentioned

Answer: A

Explanation: Cloud computing takes the technology, services, and applications that are similar to those on the Internet and turns them into a self-service utility.

8) Which of the following is an essential concept related to Cloud?

- A. Reliability
- B. Abstraction
- C. Productivity
- D. All of the mentioned

Answer: B

Explanation: Cloud computing hides all the detail of system implementation from users and developers.

9) Which one of the following is Cloud Platform by Amazon?

- A. Azure
- B. AWS
- C. Cloudera
- D. All of the mentioned

Answer: B

Explanation: Amazon web service is one of the most successful cloud-based businesses, which offers infrastructure as a service and lets you rent virtual computers on its own infrastructure.

10) Which of the following statement is not true?

- A. Through cloud computing, one can begin with very small and become big in a rapid manner.
- B. All applications benefit from deployment in the Cloud.
- C. Cloud computing is revolutionary, even though the technology it is built on is evolutionary.
- D. None of the mentioned

Answer: B

Explanation: A variety of issues, such as issues with latency, security, and regulatory compliance, all are subject to concern. AWS is one of the most successful cloud-based businesses, which is a type of infrastructure as a service and lets you rent virtual computers on its own infrastructure.

Questions and Answers based on the "Planning"

1) In the Planning Phase, Which of the following is the correct step for performing the analysis?

- A. Cloud Computing Value Proposition
- B. Cloud Computing Strategy Planning
- C. Both A and B
- D. Business Architecture Development

Answer: C

Explanation: In the planning phase, we actually analyze the strategy related problems which customers might face. There are usually two steps to perform the analysis: Cloud Computing Planning and Cloud Computing Value Proposition.

2) In which one of the following, a strategy record or Document is created respectively to the events, conditions a user may face while applying cloud computing mode.

- A. Cloud Computing Value Proposition
- B. Cloud Computing Strategy Planning
- C. Planning Phase
- D. Business Architecture Development

Answer: B

Explanation: Cloud Computing Strategy Planning: The establishment of the strategy is based on the above step's analysis result. In this phase, a strategy document is prepared according to the conditions faced by the customer while implementing the cloud computing mode

3) What is Business Architecture Development?

- A. We recognize the risks that might be caused by cloud computing application from a business perspective.
- B. We identify the applications that support the business processes and the technologies required to support enterprise applications and data systems.
- C. We formulate all kinds of plans that are required to transform the current business to cloud computing modes.
- D. None of the above

Answer: A

Explanation: Business Architecture Development: In this phase, we identify the risks that can be caused by a cloud computing application from a business point of view.

4) Which one of the following refers to the non-functional requirements like disaster recovery, security, reliability, etc.

- A. Service Development
- B. Quality of service
- C. Plan Development
- D. Technical Service

Answer: B

Explanation: Quality of service refers to the non-functional requirements such as reliability, security, disaster recovery, etc.

5) Which one of the following is a phase of the Deployment process?

- A. Selecting Cloud Computing Provider
- B. IT Architecture Development
- C. Business Architecture Development
- D. Transformation Plan Development

Answer: D

Explanation: Deployment phase: This phase focuses on both steps. It consists of the following two steps: Selecting a cloud computing provider, maintenance and technical service.

6) This phase involves selecting a cloud provider based on the Service Level Agreement (SLA), which defines the level of service the provider receives.

- A. Maintenance and Technical Service
- B. Selecting Cloud Computing Provider
- C. Both A and B
- D. None of the above

Answer: B

Explanation: This phase involves selecting a cloud provider based on the Service Level Agreement (SLA), that defines the level of service the provider receives.

7) In which one of the following phases, IT Architecture Development came?

- A. Strategy Phase
- B. Planning Phase
- C. Deployment Phase
- D. Development Phase

Answer: B

Explanation: IT Architecture Development steps in Planning Phase

8) Which of the model involves the special types of services that users can access on a Cloud Computing platform?

- A. Service
- B. Planning
- C. Deployment
- D. Application

Answer: A

Explanation: The service model contains the special types of services that users can access on a cloud computing platform.

9) Which one of the following is related to the services provided by Cloud?

- A. Sourcing
- B. Ownership
- C. Reliability
- D. PaaS

Answer: A

Explanation: Insourced or Outsourced means whether the service is provided by the customer or the service provider.

10) How many phases are present in Cloud Computing Planning?

- A. 2
- B. 3
- C. 4
- D. 5

Answer: B

Explanation: In Cloud Computing Planning, there are usually three phases that are Strategy Phase, Planning Phase, and Deployment Phase.

This set of the following Multiple-Choice Questions (MCQ's) focuses on the Cloud Computing Architecture.

- 1) Cloud computing architecture is a combination of?
- A. service-oriented architecture and grid computing
 - B. Utility computing and event-driven architecture.
 - C. Service-oriented architecture and event-driven architecture.
 - D. Virtualization and event-driven architecture.

Answer: C

Explanation: Cloud computing architecture is a combination of service-oriented architecture and event-driven architecture.

- 2) In how many parts we can broadly divide the architecture of the Cloud?
- A. 4
 - B. 3
 - C. 2
 - D. 5

Answer: C

Explanation: The architecture of the Cloud can broadly be divided into two main parts that are Back-end and Front-end.

- 3) Which one of the following refers to the user's part of the Cloud Computing system?
- A. back End
 - B. Management
 - C. Infrastructure
 - D. Front End

Answer: D

Explanation: It is the front-end that refers to the user's part of the cloud computing system. It includes many applications and interfaces that are required to access or use the cloud computing platform.

- 4) Which one of the following can be considered as the example of the Front-end?
- A. Web Browser
 - B. Google Compute Engine
 - C. Cisco Metapod
 - D. Amazon Web Services

Answer: A

Explanation: From the following given options, we can consider the Web-browser as the perfect example of the Front-end.

5) By whom is the backend commonly used?

- A. Client
- B. User
- C. Stockholders
- D. service provider

Answer: D

Explanation: It is commonly used by the service provider in order to manage all resources required to provide the Cloud Computing Services.

6) Through which, the backend and front-end are connected with each other?

- A. Browser
- B. Database
- C. Network
- D. Both A and B

Answer: C

Explanation: Typically using an internet connection, both the front and back end are connected to the others through a network.

7) How many types of services are there those are offered by the Cloud Computing to the users?

- A. 2
- B. 4
- C. 3
- D. 5

Answer: C

Explanation: Usually, Cloud Computing offers three types of services to the users that are Platform as a service (or PaaS), Application as a service (or AssS), and Software as a service (or SaaS).

8) The Force.com and windows Azure are examples of which of the following?

- A. IaaS
- B. PaaS
- C. SaaS
- D. Both A and B

Answer: B

Explanation: Both Force.com and Windows Azure are examples of the Platform as a service

9) Which of the following is one of the back-end's built-in components of cloud computing?

- A. Security
- B. Application
- C. Storage
- D. Service

Answer: A

Explanation: Security is one of the back-end's built-in components of cloud computing.

10) Which of the following provides the Graphic User Interface (GUI) for interaction with the cloud?

- A. Client
- B. Client Infrastructure
- C. Application
- D. Server

Answer: B

Explanation: The Client Infrastructure is one of the front-end components that provide the way of communication in the form of a Graphic User Interface to communicate with the Cloud.

Multiple Choice Questions (MCQ's) Based on the "Technologies" used in the Cloud Computing.

1) Which one of the following a technology works behind the cloud computing platform?

- A. Virtualization
- B. SOA
- C. Grid Computing
- D. All of the above

Answer: D

Explanation: Several technologies work behind the Cloud Computing platforms, which provide features like Flexibility, reliability, and usability to cloud computing.

2) Which one of the following is a kind of technique that allows sharing the single physical instance of an application or the resources among multiple organizations/customers?

- A. Virtualization
- B. Service-Oriented Architecture
- C. Grid Computing
- D. Utility Computing

Answer: A

Explanation: Virtualization is a kind of technique that allows us to share the single physical instance of a resource or application between several organizations/users.

3) Which one of the following statements is true about the Virtualization?

- A. It provides a logical name for a physical resource, and on-demand provides an indicator of that physical resource.
- B. In Virtualization, we analyse the strategy related problems that customers may face.
- C. In Virtualization, it is necessary to compile the Multitenant properly.
- D. All of the above

Answer: A

Explanation: It provides a logical name to the physical resource when the demand is correct regarding virtualization and provides an indicator of that physical resource.

4) In Virtualization, which architecture provides the virtual isolation between the several tenants?

- A. IT Architecture
- B. Multitenant
- C. Deployment
- D. Business Architecture

Answer: B

Explanation: The Multitenant architecture provides us the virtual isolation in between several tenants. Hence the organization can easily use and also modify their application as they each have their instances running.

5) On which one of the following utility computing is based?

- A. Grid Computing Model
- B. SOA Model
- C. virtual isolation Model
- D. Pay-per-Use model

Answer: D

Explanation: Utility computing is based on the pay-what-you use model.

6) Which one of the following statements is true about the Service-Oriented Architecture?

- A. It is possible to exchange data between applications from different vendors without using additional programming.
- B. It provides computational resources on-demand as a metered service.
- C. Service-Oriented Architecture allows using the application as a service for other applications.
- D. Both A and C

Answer: D

Explanation: The service-oriented architecture helps to be used as a service for other applications regardless of vendor, product, or technology type. Therefore, it is possible to exchange data between different vendors' applications without changes in additional programming or services.

7) In Grid Computing, which types of computer resources are there?

- A. heterogeneous dispersed.
- B. geographically dispersed.
- C. Both A and B
- D. None of the above

Answer: C

Explanation: In grid computing, heterogeneous types of resources are used that are geographically dispersed.

8) Managed IT services are based on the concept of which one of the following?

- A. Virtualization
- B. Utility Computing
- C. Grid Computing
- D. SOA

Answer: B

Explanation: In Cloud Computing, managed IT services and grid computing are based on the concept of Utility Computing.

9) Which one of the following refers to the Distributed Computing, in which several sets of computers distributed on multiple geographical locations and are connected with each other to achieve a common goal?

- A. Virtualization
- B. SOA
- C. Grid Computing
- D. Utility Computing

Answer: C

Explanation: Grid Computing refers to the Distributed Computing, in which several sets of computers distributed on multiple geographically dispersed, and are connected with each other to achieve a common goal.

10) Which one of the following statements is true about Grid Computing?

- A. Pieces combine small tasks into complex tasks
- B. The subscription tier plays an important role in grid computing.
- C. Breaks complex tasks into small operations
- D. Both A and C

Answer: C

Explanation: Grid computing breaks down complex tasks into smaller pieces, which are distributed to the CPU residing within the grid.

Multiple Choice Questions (MCQ's) based on the "Hypervisors" used in the Cloud Computing.

1) Which one of the following given programs provides the isolation (abstraction) and partitioning?

- A. System hypervisor
- B. Software hypervisor
- C. Hardware hypervisor
- D. Virtualization hypervisor

Answer: D

Explanation: The virtualization hypervisor program provides the isolation (abstraction) and partitioning

2) On which one of the following hypervisors runs directly on the underlying host system, it is also known as_____?

- A. Bare metal hypervisor
- B. Hosted Hypervisor
- C. Native Hypervisor
- D. Both A and C

Answer: D

Explanation: The Hypervisor runs directly on the underlying host system, and sometimes it is also known as "Native Hypervisor" or "Bare metal hypervisor."

3) Which of the following behaves like the monitor's entry point and reroutes the instructions of the virtual machine?

- A. Dispatcher
- B. Allocator
- C. Interpreter
- D. Both A and B

Answer: A

Explanation: The Dispatcher acts as the monitor's entry point and reruns the instructions (statements) of the virtual machine instance to one of the other two modules.

4) Which one of the following is also known as a Hypervisor?

- A. VMA
- B. VMM
- C. VMS
- D. VMR

Answer: B

Explanation: A Virtual Machine Monitor (or VMM) is sometimes also known as the Hypervisor.

5) How many kinds of Hypervisor are there?

- A. 4
- B. 3
- C. 2
- D. 5

Answer: C

Explanation: There are only two kinds of Hypervisors that are Type1-Hypervisor and Type2-Hypervisor.

6) Which one of the following is not an example of the Type1-Hypervisor?

- A. VMware ESXi
- B. Citrix XenServer
- C. Microsoft Hyper-V hypervisor
- D. VMware Player

Answer: D

Explanation: VMware Player is one of the examples of Type2-Hypervisor not of the Type1-Hypervisor

7) How many main modules are needed to coordinate in order to emulate the underlying hardware?

- A. 3
- B. 2
- C. 4
- D. 5

Answer: A

Explanation: In order to emulate the underlying hardware, there are three main modules needed to coordinate, which are as follows:

Interpreter
Allocator
Dispatcher

8) Which one of the following is used to call the allocator?

- A. INTERPRETER
- B. TYPE-2 Hypervisor
- C. Both A and B
- D. DISPATCHER

Answer: D

Explanation: Each time when the virtual machine wants to execute an operation or instruction, it will result in allowing in changing the machine's resources associated with the virtual machine. Hence the allocator is called by the Dispatcher.

9) The Parallels Desktop can be considered as the example of which of the following?

- A. TYPE-2 Hypervisor
- B. DISPATCHER
- C. TYPE-1 Hypervisor
- D. INTERPRETER

Answer: A

Explanation: Parallels Desktop or VMware Player is one of the examples of the Type2-Hypervisor. Almost all the hosted hypervisors are usually found on endpoints such as PCs.

10) Which one of the following statements is not true?

- A. Whenever a command begins a process, immediately the process virtual machine gets instantiated.
- B. Usually, the guest operating systems are more faster in full virtualization as compared to other virtualization schemes.
- C. It is necessary for the full virtualization that the host OS (Operating System) offers a Virtual Machine Interface for the guest operating system by which the guest operating system can access the hardware through the host VM.
- D. All of the above

Answer: C

Explanation: The statement given in the option c is not true at all.

11) Which of the following statements is not true?

- A. Load balancing virtualizes systems and resources by mapping a logical address to a physical address
- B. Multiple instances of various Google applications are running on different hosts
- C. Google uses hardware virtualization
- D. All of the above

Answer: A

Explanation: Google performs the load balancing for distributing the processing load in order to achieve high utilization rates.

12) Which one of the following can be considered as the example of the Type2 Virtual Machine monitors?

- A. KVM
- B. Microsoft Hyper V
- C. Parallels Desktop
- D. All of the above

Answer: D

Explanation: KVM, Microsoft Hyper V, and Parallels Desktop for Mac are examples of the Type2 Virtual Machine Monitors.

13) Which one of the following is a type of software that supports the virtual machine?

- A. Kernel
- B. Hypervisor
- C. VMM
- D. Both B and C

Answer: D

Explanation: The VMM and kernel both are a kind of software that supports the Virtual Machine.

14) Which one of the following runs on Xen Hypervisor?

- A. Azure
- B. AWS EC2
- C. C AWS EC3
- D. All of the above

Answer: B

Explanation: AWS EC2 runs on Xen Hypervisor

15) Which one of the following is the type of a service that manages and creates virtual network interfaces?

- A. VMware vStorage
- B. Application services
- C. VMware vCompute
- D. VMware vNetwork

Answer: D

Explanation: VMware vNetwork is a kind of service that manages and creates virtual network interfaces.

16) In which one of the following, the virtual machine simulates hardware, through which it can be independent of the underlying system hardware?

- A. Para-virtualization
- B. Full virtualization
- C. Emulation
- D. None of the above

Answer: C

Explanation: In emulation, the virtual machine simulates hardware, through that it can be independent of the underlying system hardware

17) Which one of the following will be the host operating system for Windows Server?

- A. VirtualLogix VLX
- B. Microsoft Hyper-V
- C. Xen
- D. All of the above

Answer: B

Explanation: Type 2 virtual machines are installed over a host operating system.

18) In Which Type of VM, full virtualization can be possible?

- A. Type4
- B. Type2
- C. Type3
- D. Type1

Answer: D

Explanation: In Type1, the full virtualization can be possible because it provides a complete simulation of the hardware on which it is currently running.

19) Which one of the following can be considered as another name of Virtual Machine?

- A. Software virtual machine
- B. Real machine
- C. process virtual machine
- D. Virtualization hypervisor

Answer: C

Explanation: Some kinds of Virtual Machines are specially designed so that they can able to run only a single process or application. Hence, these kinds of virtual machines are referred as the process Virtual Machines.

MCQ's based on the SaaS

1) Which of the following is the correct full form of SaaS?

- A. Storage-as-a-Service
- B. Server-as-a-Software
- C. Software-as-a-Service
- D. None of the above

Answer: C

Explanation: The term "SaaS" stands for the "Software as a Service," a type of model that allows to offer Software application as a service for the customers. For Example: MailChimp, Google Apps, Dropbox, Salesforce, etc

2) Through which one of the following models, SaaS supports multiple users and offers a shared data model?

- A. single-tenancy
- B. multiple-instance
- C. multi-tenancy
- D. None of the above

Answer: C

Explanation: There is also an alternate of the Software virtualization of the single individual instances that exist, although it is not that common.

3) Which of the following is the SaaS's Characteristics?

- A. Usually, the license is subscription-based or usage-based and is billed on a recurring basis.
- B. The software and the service are observed and maintained usually by the vendor.
- C. Software mostly available over the internet across the world and can be provided according to the demand through the browser.
- D. All of the above

Answer: D

Explanation: Sometimes it may be the client-side executable code. Still, it is not the end-user's responsibility to maintain that code and maintain its interaction with the services at all.

4) Which of the following is a characteristic of the SaaS applications?

- A. SaaS applications are reliable
- B. SaaS applications are not customizable
- C. SaaS applications are customizable
- D. Non-reliable

Answer: C

Explanation: SaaS offers Application Programming Interface (API) to the users, which allows the users/developers to develop a customized application.

5) Which types of issues are associated with the SaaS?

- A. Modest software tools
- B. Multitenant solutions
- C. Centralized management and data
- D. Network dependence

Answer: D

Explanation: There are many issues associated with the SaaS (Software as a Service), such as Lack of portability between SaaS clouds, Web-browser related issues, and Network dependence.

6) Which one of the following statements can be considered as the true characteristics of software as a Service (SaaS) model?

- A. Software applications are generally maintained by the service provider (or vendor)
- B. SaaS provides the best cost-effective applications because they do not need any maintenance at the customer side.
- C. They can easily scale up or scale down according to the conditions.
- D. All of the above

Answer: D

Explanation: All the statements provided in the above question are the characteristics of the SaaS or Software as a Service model.

7) Which one of the following is not the correct statement?

- A. SaaS may be also be described as software deployed on a hosted service.
- B. The platform can be based on the types of software development languages, frameworks, and several other constructs.
- C. SaaS is the cloud-based equivalent of shrink-wrapped software
- D. All of the above

Answer: D

Explanation: SaaS can be accessed globally through the internet, usually in a browser.

8) Which one of the following can be considered as the most complete cloud computing service model?

- A. PaaS
- B. IaaS
- C. CaaS
- D. SaaS

Answer: D

Explanation: The most complete cloud computing service model must contain the computing hardware and software, as well as the solution itself. Hence the SaaS model has all these features.

9) In SaaS, the used open-source software are also known as_____

- A. Closed
- B. Free
- C. Open
- D. all of the mentioned

Answer: C

Explanation: In general, a huge part of the SaaS Software's is based on the open-sourced software.

10) Which one of the following statements is not true about SaaS?

- A. SaaS applications are offered in all shapes and sizes.
- B. All users with a little knowledge or know how to operate a computer also know about the SaaS.
- C. SaaS software is not customizable.
- D. None of the above

Answer: D

Explanation: Every computer user is well familiar with SaaS, which is an alternate for the locally installed software.

MCQ's based on the Paas (Platform as a service)

1) Which type of PaaS does not contain any type of license or technical dependencies on specific SaaS applications?

- A. Add-on development facilities
- B. Application delivery-only environments
- C. Open Platform as a service
- D. Stand-alone development environments

Answer: D

Explanation: The PaaS is a type of stand-alone, works as the independent entity for the unique function. It also does not require technical dependencies and licensing on any special SaaS (Software as a service) applications.

2) Which one of the following is associated heavily with vendor lock-in?

- A. DaaS
- B. SaaS
- C. IaaS
- D. PaaS

Answer: D

Explanation: The main problem with the "Platform as a service" (or PaaS) is that it normally ties the developer and the customer in such a solution, in which both the developer and customers have to depend on the platform vendor.

3) Which one of the following is a type of PaaS that usually allows customizing the existing SaaS platform?

- A. Stand-alone development environments
- B. Add-on development facilities
- C. Open Platform as a service
- D. Application delivery-only environments

Answer: B

Explanation: Add-on development facilities are a type of Paas that allows us to customize the existing SaaS platform.

4) Which one of the following of PaaS type that involves on-demand scaling and application security?

- A. Stand-alone development environments
- B. Open Platform as a service
- C. Application delivery-only environments
- D. Add-on development facilities

Answer: C

Explanation: The application delivery-only environment contains features like application security and on-demand scaling.

5) How many types of PaaS are there?

- A. 4
- B. 3
- C. 2
- D. 5

Answer: A

Explanation: On the basis of function, there are four types of PaaS.

6) Which one of the following can be considered as the benefit of PaaS?

- A. Lower administrative overhead
- B. Lower total cost of ownership
- C. More current system software
- D. All of the above

Answer: D

Explanation: Lower administrative overhead, the lower total cost of ownership and more current network all are the benefits of the PaaS (Platform as a service).

7) In AWS, which of the following is the AWS Management Console?

- A. CAS
- B. CDSS
- C. CCS
- D. CDA

Answer: C

Explanation: CSS is the AWS Management Console in the AWS.

8) Which of the following can be considered PaaS offering?

- A. Youtube
- B. Google Earth
- C. Google Adsense
- D. Google Maps

Answer: D

Explanation: In most cases, vendors of PaaS solutions are the developer who provides a complete solution to the customer.

9) Which one of the following is not the correct statement?

- A. The customer assumes no responsibility for maintaining the hardware, software or the development of applications.
- B. Google's App Engine platform is one of the IaaS offerings.
- C. The vendor is usually responsible for all operational aspects of the services.
- D. All of the above

Answer: B

Explanation: The customer is generally responsible only for his interaction with the Platform.

10) Which one of the following statements is correct about the PaaS?

- A. The platform as a service (or PaaS) systems usually support standards like JavaScript, HTML, and several other rich media technologies.
- B. Platform as a service provides the runtime environment for the applications.
- C. The platform as a service is a completely integrated development environment.
- D. All of the above

Answer: D

Explanation: All statements mentioned in the above questions are true about the PaaS, so that the correct option will be the D.

MCQ's based on the IaaS

1) The terms "IaaS" stand for?

- A. IT-as-a-Service
- B. Infrastructure-as-a-Service
- C. Internet-as-a-Service
- D. Interoperability-as-a-Service

Answer: B

Explanation: The full form of the term IaaS is "Infrastructure as a Service."

2) The resources like IP addresses and VLANs are provided to the end-users by which of the following?

- A. Server virtualization.
- B. Client virtualization.
- C. End-user virtualization.
- D. IaaS

Answer: A

Explanation: Resources such as the IP addresses and VLANs are offered to the end-users through the server virtualization.

3) Which one of the following is a kind of open standard protocol?

- A. SOAP
- B. WSDL
- C. DHML
- D. SIMPLE

Answer: D

Explanation: The term "SIMPLE" is a type of open standard protocol.

4) In the virtual appliance, the content can be ____.

- A. structured
- B. unstructured
- C. Both A and B
- D. None of the above

Answer: C

Explanation: In a virtual appliance, the content can be either structured or unstructured.

5) How many kinds of virtual private server instances are there partitioned in the IaaS stack?

- A. 3
- B. 2
- C. 4
- D. 5

Answer: A

Explanation: There are only three types of workloads that need three different sizes of computers, such as large, medium, and small.

6) Which of the following forms the basis for almost all web services stacks?

- A. WSDL
- B. SOAP
- C. UDDI
- D. VMCC. SOA

Answer: B

Explanation: The term "SOAP" stands for the Simple Object Access Protocol, and it forms the basis for most Web Service Stacks.

7) Which of the following is the most commonly used model for description and discovery and is also used with SOAP messaging?

- A. DHML
- B. VMC
- C. WSDL
- D. SOA

Answer: C

Explanation: Web Services Description Language (WSDL) is the model that is usually used for description and discovery, and it is also used with SOAP messaging.

8) The Infrastructure as a service (IaaS) provides a type of isolated environment to each customer individually by using_____.

- A. renting
- B. virtual machine sprawl
- C. security vulnerabilities
- D. hypervisor

Answer: D

Explanation: The Infrastructure as a service (or IaaS) provides a type of isolated environment to each customer individually through the hypervisors.

9) IaaS usually shares issues with the ____.

- A. PaaS
- B. SaaS
- C. Both A and B
- D. None of the above

Answer: C

Explanation: It usually shares issues with both PaaS (Platform as a service) and SaaS (Software as a service).

10) Which of the following is an advantage of IaaS (Infrastructure as service)?

- A. Efficient and flexible renting of computer hardware.
- B. Portability, interoperability with legacy applications.
- C. Complete control of the computing resources through administrative access to VMs.
- D. All of the above

Answer: D

Explanation: All statements mentioned in the above questions are the advantages of the IaaS (Infrastructure as a service)

MCQ Based on the DlaaS

1) Which one of the following is not a correct statement?

- A. The Distributed Audit Service offers accountability for users accessing a system.
- B. The CardSpace and OpenID specifications support the authentication type of data object.
- C. Distributed transaction systems like as Cloud Computing Systems, Internetworks and several others usually increases the obstacles faced by identity management systems.
- D. All of the above

Answer: B

Explanation: OpenID is a type of developing industry standard to authenticate the End Users, by sorting the digital identity of the users in a specific format.

2) Which one of the following frameworks uses i-Card metaphor?

- A. Higgins
- B. Hughes
- C. Hinges
- D. XACML

Answer: A

Explanation: The Higgins open source identity framework is typically used to create a vendor-neutral cloud-based authentication service

3) Which of the following is a type of XML request or response language commonly used to integrate and interrupt services that handle requests?

- A. XACML
- B. FIDM
- C. SSP
- D. SPML

Answer: D

Explanation: SPML is a type an XML request/response language, which usually used to integrate and interoperate service provisioning requests.

4) In order to provide more secure authentication, which of the following is required at least?

- A. three-factor authentication.
- B. two -factor authentication.
- C. four-factor authentication.
- D. None of the above

Answer: B

Explanation: In order to provide more secure authentication, the two-factor authentication is required at least.

5) Which one of the following groups is usually dedicated to supporting technologies that implement enterprise mashups?

- A. Open Mashup Alliance
- B. Open Alliance Apache
- C. Open Tech Alliance
- D. None of the above

Answer: A

Explanation: Open Mashup Alliances group usually predicts that the use of mashups will increase by a factor of 10 within just some years.

6) Which one of the following statements is correct about the FIDM?

- A. SAML have access control
- B. It typically uses the Security Markup Language (SAML) for packaging the user's security credentials.
- C. It describes the protocols and technologies.
- D. All of the above

Answer: D

Explanation: FIDM addresses the protocols and technologies that enable a user for packaging the security credentials across the security domains.

Usually, the SAML (or Security Markup Language) is used to package the user's security credentials.

7) Which of the following allows the users to login into a several different websites with the same single account?

- A. OpenID
- B. FIDM
- C. SSO
- D. Identity

Answer: A

Explanation: OpenID allows users to login into several different websites with the same single account. Google, Myspace, Yahoo!, Flickr and several others are the companies which support the OpenID.

8) Which one of the following statements is true about the SSO?

- A. It has multiple authentication servers
- B. It manages single accesses to other systems
- C. In SSO, User sends the ticket to intranet server.
- D. All of the above

Answer: C

Explanation: It has the single authentication instead of multiple authentication servers and manages multiple accessed to the other systems. In this, the user sends the ticket/token to intranet server.

9) Among the following, which one has the single authentication server and manages multiple accesses to the other systems?

- A. SOAP
- B. IDaaS
- C. SSO
- D. SOA

Answer: C

Explanation: It is the SSO, which has the one single authentication server, and manages the multiple accesses to the other systems.

10) The term "IDaaS" stands for?

- A. ID-as-a-Service
- B. Interoperability-as-a-Service
- C. Intranet-as-a-service
- D. Identity-as-a-Service

Answer: D

Explanation: In order to solve the several other problems a new technology is introduced known as the IDaaS or Identity as a Service.

Multiple-choice Questions Based on the Cloud Type-1.

1) Which of the following can be referred to the location and management of the cloud's infrastructure?

- A. Service
- B. Deployment
- C. Application
- D. None of the mentioned

Answer: B

Explanation: The deployment model tells us where the cloud is located.

2) _____ model consists of the particular types of services that you can access on a cloud computing platform.

- A. Service
- B. Deployment
- C. Application
- D. None of the mentioned

Answer: A

Explanation: Service models describe the type of service that the service provider is offering.

3) Which one of the following statements is wrong?

- A. The use of the word "cloud" makes reference to the two essential concepts.
- B. Cloud computing abstracts systems by pooling and sharing resources
- C. Cloud computing is nothing more than the Internet.
- D. All of the mentioned

Answer: B

Explanation: Abstraction and virtualization are the two essential concepts.

4) Which of the following is the deployment model?

- A. Public
- B. Private
- C. Hybrid
- D. All of the mentioned

Answer: D

Explanation: Public, private, community and hybrid clouds are the deployment models.

5) Which one of the following statements is wrong?

- A. Cloud Computing has two distinct sets of models.
- B. Amazon has built a worldwide network of data centers to service its search engine.
- C. Azure enables .NET Framework applications to run over the Internet.
- D. None of the mentioned

Answer: B

Explanation: Google has built mega data centers for its search engine. Hence it is not true that Amazon has built a worldwide network of data centers to service its search engine.

6) Which one of the following is considered the best-known service model?

- A. SaaS
- B. IaaS
- C. PaaS
- D. All of the mentioned

Answer: D

Explanation: The best-known service models are Software as a Service, Platform as a Service, and Infrastructure as a Service—the SPI model.

7) The _____ model originally did not require a cloud to use virtualization to pool resources.

- A. NEFT
- B. NIST
- C. NIT
- D. All of the mentioned

Answer: B

Explanation: NIST stands for the National Institute of Standards and Technology.

8) Which one of the following dimensions is related to the organization's boundaries?

- A. The physical location of data
- B. Ownership
- C. Security boundary
- D. All of the mentioned

Answer: A

Explanation: Internal (I) / External (E) determines the organization's boundaries so that the correct option will be A.

9) How many types of dimensions exist in the Cloud Cube Model?

- A. One
- B. Two
- C. Three
- D. Four

Answer: D

Explanation: There are four types of dimensions in Cloud Cube Model.

10) _____ model attempts to categorize a cloud network based on four-dimensional factors.

- A. Cloud Square
- B. Cloud Service
- C. Cloud Cube
- D. All of the mentioned

Answer: C

Explanation: The Cloud Cube model is mainly used for secure collaboration.

Multiple-choice Questions Based on the Cloud Type-2.

1) A hybrid cloud combines multiple clouds where those clouds retain their unique identities but are bound together as a unit.

- A. Public
- B. Private
- C. Community
- D. Hybrid

Answer: D

Explanation: A hybrid cloud can offer standardized or proprietary access to data and applications, as well as application portability.

2) Which one of the following is the wrong statement?

- A. A deployment model defines the purpose of the cloud and the nature of how the cloud is located.
- B. The service model defines the purpose of the cloud and the nature of how the cloud is located.
- C. Cloud Square Model is meant to show us that the traditional notion of a network boundary being the network's firewall no longer applies in cloud computing.
- D. All of the mentioned

Answer: A

Explanation: Four types of deployment models exist.

3) Which one of the following is the wrong statement?

- A. Public Cloud may be managed by the constituent organization(s) or by a third party.
- B. A community cloud may be managed by the constituent organization(s) or by a third party.
- C. Private clouds may be either on- or off-premises
- D. None of the mentioned

Answer: A

Explanation: The public cloud infrastructure is available for public use, alternatively for a large industry group.

4) How many types of security threshold values are actually present in the cloud cube model?

- A. 1
- B. 2
- C. 3
- D. None of the mentioned

Answer: B

Explanation: There are only two types of depending upon the network firewall.

5) Which of the following is offered by the ownership dimension of the Cloud Cube Model?

- A. Proprietary
- B. Owner
- C. P
- D. All of the mentioned

Answer: B

Explanation: P stands for Proprietary ownership

6) Which of the following is a measure of knowing whether the operation is inside or outside the security limits?

- A. Per
- B. P
- C. Pre
- D. All of the mentioned

Answer: D

Explanation: All options mentioned in the above questions are the ways of knowing whether the operation is inside or outside the security limits, we can also call it a network firewall.

7) Which one of the following is related to the services offered by the Cloud?

- A. Sourcing
- B. Ownership
- C. Reliability
- D. AaaS

Answer: A

Explanation: It can be understood as the Outsourced or Insourced, which refers to the services that are provided by the service provider.

8) Which one of the following dimensions corresponds to two different states in the possible eight cloud forms?

- A. The physical location of data
- B. Ownership
- C. Security boundary
- D. None of the mentioned

Answer: D

Explanation: None of the following given dimension corresponds to two different states in the eight possible cloud forms.

9) Which one of the following options is correct cloud infrastructure operated for the exclusive use of an organization?

- A. Public
- B. Private
- C. Community
- D. All of the mentioned

Answer: B

Explanation: The Cloud can be managed by the third party or by that organization.

10) Which one of the following is a type of the Cloud that is organized in such a way to serve the common purpose or the functions?

- A. Public
- B. Private
- C. Community
- D. All of the mentioned

Answer: C

Explanation: The management of a community cloud can be managed by the constituent organization(s) or a third party.

This set of Cloud Computing Questions & Answers for entrance exams Based on "Cloud Types - 3".

1) Which one of the following is the wrong statement?

- A. Everything from application to infrastructure is the responsibility of the vendor.
- B. AaaS provides several sources such as the applications, development frameworks, operating systems, virtual machines, control structures, transactions, etc.
- C. In the deployment model, different types of clouds are referred to as an expression of the infrastructure's approach.
- D. All of the mentioned

Answer: B

Explanation: It is the Paas (the Platform As A Services) that provides several sources or services such as the applications, development frameworks, operating systems, virtual machines, control structures, and transactions etc. not the AaaS (or the Application As A Service).

2) Which one of the following provides the resources or services such as the virtual infrastructure, virtual machines, virtual storage, and several other hardware assets?

- A. IaaS
- B. SaaS
- C. Paas
- D. All of the mentioned

Answer: A

Explanation: The IaaS (or Infrastructure As A Service) service provider maintains all infrastructure, while on the other hand client is responsible for several other deployment aspects.

3) Which one of the following offers the control structures and development frameworks?

- A. IaaS
- B. SaaS
- C. PaaS
- D. All of the mentioned

Answer: A

Explanation: The correct answer is the IaaS (the infrastructure As a Service) because it is a kind of cloud computing that uniquely provides resources such as the virtualized computing over the internet.

4) Which one of the following is the wrong statement?

- A. The Platform as a service includes the integration features, middleware, and several other orchestrations choreography services to the IaaS model.
- B. Hybrid Cloud Computing offers xaaS or "anything as a service" as the delivery of IT as a service.
- C. MaaS (or the Monitoring as a Service) is currently still an emerging piece of Cloud Jigsaw.
- D. None of the mentioned

Answer: C

Explanation: Monitoring as a service (or MaaS) provides the option of unloading a large portion of those costs from running as a service as opposed to a complete investment in-home tool.

5) Which one of the following was owned by an organization that sells cloud services?

- A. Hybrid
- B. Private
- C. Community
- D. Public

Answer: D

Explanation: The public Cloud is one of the cloud infrastructures that are available for public use as the alternative for the large industry group.

6) Find out which one can be considered the complete operating environment with applications, management?

- A. IaaS
- B. SaaS
- C. PaaS
- D. All of the mentioned

Answer: B

Explanation: In the Software as a Service model (the SAAS), the application is usually provided to the users through a thin client interface.

7) Which one of the following is considered a type of cloud computing model involving the three different service models together?

- A. CPI
- B. SIP
- C. SPI
- D. All of the mentioned

Answer: A

Explanation: SPI is actually an acronym(or we can say the Short form of any words) for the most standard cloud computing services models, such as the infrastructure as a Service, Platform as a Service, and Software as a Service.

8) The term "Caas" stands for____ as a service?

- A. Compliance as a service
- B. Computer as a service
- C. Community as a service
- D. Communication as a service

Answer: D

Explanation: The term "CAAS" stands for Communication as a service, which enables the clients to utilize resources like the Unified Communications, and Enterprise Level PBX, VPNs, VoIP without the expense of hosting, purchasing, and maintaining the infrastructure.

9) Which one of the following is a type of infrastructure as a service?

- A. EC2
- B. EC1
- C. EC10
- D. Hybrid

Answer: A

Explanation: Amazon EC2 stands for the Amazon Elastic Compute Cloud that offers the scalable computing capacity in the AWS (or Amazon Web Services) cloud to its clients. One can eliminate his investment in hardware upfront using the Amazon Elastic Compute Cloud and boost the development and deployment application process.

Multiple-choice Questions based on the Advantages and Disadvantages of Cloud Computing

1) Which one of the following was one of the top 5 cloud applications in late 2010?

- A. Cloud backup
- B. Web applications
- C. Business applications
- D. All of the mentioned

Answer: D

Explanation: The economics of software delivery has been shifted in a significant manner, just like the music downloads has been shifted the delivery of the music.

2) Which one of the following statements is not true?

- A. Google's cloud involves approx ten data-centers in all over the world.
- B. Data centers are sited in such a way that the overall system latency can be optimized.
- C. The online shopping website, such as Flipkart.com, has the infrastructure built so that it can support the elastic demand so the system will be capable of accommodating peak traffic.
- D. All of the above

Answer: B

Explanation: Data-centers can help lower land costs and reduce occupations.

3) Which of the following benefits is related to creating stored resources together in a system that supports multi-tenant use?

- A. On-demand self-service
- B. Extensive network access
- C. Resource pooling
- D. All of the above

Answer: A

Explanation: The cloud service provider creates resources that support multi-tenant usage in a system.

4) Which one of the following is something that a user can obtain it under the contract from his/her vendor?

- A. PoS
- B. SoS
- C. QoS
- D. All of the mentioned

Answer: C

Explanation: Usually, it totally depends on the type of services being offered. One can find that he/she does not require any software or hardware licensees in order to implement his/her services.

5) All cloud computing applications suffer from the inherent _____ that is intrinsic in their WAN connectivity.

- A. Propagation
- B. Latency
- C. Noise
- D. All of the mentioned

Answer: B

Explanation: While cloud computing applications excel at large-scale processing tasks, if your application needs large amounts of data transfer, cloud computing may not be the best model for you.

6) Which of the following architectural standards is working with the cloud computing industry?

- A. Service-oriented architecture
- B. Standardized Web services
- C. Web-application frameworks
- D. All of the mentioned

Answer: A

Explanation: These standards help to enable different business models that cloud computing vendors can support, most notably Software as a Service (SaaS), Web 2.0 applications, and utility computing. When your data travels over and rests on systems that are no longer under your control, you have increased risk due to others' interception and malfeasance.

7) Which one of the following is the most important subject of concern in cloud computing?

- A. Security
- B. Storage
- C. Scalability
- D. All of the mentioned

Answer: A

Explanation: When your data travels over and rests on systems that are no longer under your control, you have increased risk due to others' interception and malfeasance.

8) You cannot rely on a cloud provider for maintaining its _____ in the event of government work.

- A. Scalability
- B. Reliability
- C. Privacy
- D. None of the mentioned

Answer: C

Explanation: The Cloud computing industry continues to address security concerns.

9) _____ enables batch processing, which greatly speeds up high-processing applications.

- A. Scalability
- B. Reliability
- C. Elasticity
- D. Utility

Answer: A

Explanation: This feature obviates the need for planning and provisioning.

10) _____ feature allows you to optimize your system and capture all possible transactions.

- A. Scalability
- B. Reliability
- C. Elasticity
- D. none of the mentioned

Answer: C

Explanation: You have the ability to right-size resources as required.

11) _____ is a pay-as-you-go model matches resources to need on an ongoing basis.

- A. Utility
- B. Elasticity
- C. Low barrier to entry
- D. All of the mentioned

Answer: A

Explanation: This eliminates waste and has the added benefit of shifting risk from the client.

12) Which of the following is the most refined and restrictive service model?

- A. IaaS
- B. CaaS
- C. PaaS
- D. All of the mentioned

Answer: C

Explanation: When the service requires the client to use a complete hardware/software/application stack, it is used the most refined and restrictive service model.

13) When you add a software stack, such as an operating system and applications to the service, the model shifts to _____ model.

SaaS

PaaS

IaaS

All of the mentioned

Answer: A

Explanation: Microsoft's Windows Azure Platform is best described as currently using the SaaS model.

14) Which one of the following is a false statement?

- A. A cloud is defined as the combination of the infrastructure of a data-center with the ability to provision hardware and software.
- B. High touch applications are best done on-premises.
- C. The Google App Engine follows IaaS.
- D. None of the mentioned

Answer: C

Explanation: The Google App Engine follows PaaS (or Platform as a service).

15) Service that generally focuses on the hardware follows which one of the following service models?

- A. IaaS
- B. CaaS
- C. PaaS
- D. All of the mentioned

Answer: A

Explanation: Amazon web service follows the PaaS model.

16) Which of the following types of applications works with cloud computing that has low risks, low margins?

- A. High touch
- B. Low touch
- C. Moderate touch
- D. All of the mentioned

Answer: B

Explanation: The "low touch" applications that come with low margins require committed resources and pose less risk.

17) Which one of the following statements is false?

- A. Service Level Agreements (SLAs) is a small aspect of cloud computing.
- B. Cloud computing does not have an impact on Software licensing.
- C. Cloud computing present new opportunities to users and developers.
- D. All of the mentioned

Answer: C

Explanation: The answer will be the C because it is based on the paradigm of a shared multi-tenant utility.

18) Which one of the following is a special attribute of cloud computing?

- A. utility type of delivery
- B. elasticity
- C. low barrier to entry
- D. all of the mentioned

Answer: C

Explanation: These attributes change how applications are created, priced, and delivered.

1. What is Cloud Computing?

- a) Cloud Computing means providing services like storage, servers, database, networking, etc
- b) Cloud Computing means storing data in a database
- c) Cloud Computing is a tool used to create an application
- d) None of the mentioned

Answer: a

Explanation: Cloud computing means providing services like storage, servers, database, networking, etc. over the internet without the user managing it directly. The data stored can be accessed by an authorized user anywhere anytime provided the user must have an internet connection and a device.

2. Who is the father of cloud computing?

- a) Sharon B. Codd
- b) Edgar Frank Codd
- c) J.C.R. Licklider
- d) Charles Bachman

Answer: c

Explanation: In the 1960s J.C.R. Licklider wanted to connect people and share data anytime from anywhere, hence he invented Cloud Computing.

3. Which of the following is not a type of cloud server?

- a) Public Cloud Servers
- b) Private Cloud Servers
- c) Dedicated Cloud Servers
- d) Merged Cloud Servers

Answer: d

Explanation: In Public Servers the users share the hardware, storage, and networks. Private Servers provide high security to the data stored through firewalls and internal hosting. Also, in the private cloud, the user can customize their servers with add-ons. In Dedicated Servers, the server completely belongs to a particular organization or a company.

4. Which of the following are the features of cloud computing?

- a) Security
- b) Availability
- c) Large Network Access
- d) All of the mentioned

Answer: d

Explanation: One of the important features is security, the data stored is secured and cannot be accessed by unauthorized parties. In case the user exhausts the storage space allocated, the user can buy extra storage for a less amount. The data stored can be accessed by any authorized user anywhere anytime provided the user must have an internet connection and a device.

5. Which of the following is a type of cloud computing service?

- a) Service-as-a-Software (SaaS)
- b) Software-and-a-Server (SaaS)
- c) Software-as-a-Service (SaaS)
- d) Software-as-a-Server (SaaS)

Answer: c

Explanation: Software as a Service, is the most widely used choice for enterprises. SaaS makes use of the internet to offer apps to consumers that are controlled by a third-party vendor.

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6. Which of the following is the application of cloud computing?

- a) Adobe
- b) Paypal
- c) Google G Suite
- d) All of the above

Answer: d

Explanation: Adobe Creative Cloud is used in the art sector. Paypal is an online payment application. Google G Suite is the best storage and backup application used by google.

7. Which of the following is an example of the cloud?

- a) Amazon Web Services (AWS)
- b) Dropbox
- c) Cisco WebEx
- d) All of the above

Answer: d

Explanation: Amazon Web Services (AWS), Dropbox, and Cisco WebEx are examples of cloud.

8. Applications and services that run on a distributed network using virtualized resources is known as _____

- a) Parallel computing
- b) Soft computing
- c) Distributed computing
- d) Cloud computing

Answer: d

Explanation: Cloud computing refers to the delivery of services such as storage, servers, databases, networking, and other functions through the internet without the need for the user to manage them directly. These applications are accessed by common Internet protocols and networking standards.

9. Which of the following is an example of a PaaS cloud service?

- a) Heroku
- b) AWS Elastic Beanstalk
- c) Windows Azure
- d) All of the above

Answer: d

Explanation: PaaS stands for Platform-as-a-Service. In PaaS, the users receive hardware or software tools from the users on the internet. AWS Elastic Beanstalk, Windows Azure, Heroku are example of a PaaS service.

10. Which of the following is an example of an IaaS Cloud service?

- a) DigitalOcean
- b) Linode
- c) Rackspace
- d) All of the above

Answer: d

Explanation: IaaS stands for Infrastructure-as-a-Service. In IaaS, the users receive computing resources like software or hardware tools virtually over the internet. DigitalOcean, Linode, Rackspace are the example of an IaaS service.

11. Which of the following is the correct statement about cloud computing?

- a) Cloud computing abstracts systems by pooling and sharing resources
- b) Cloud computing is nothing more than the Internet
- c) The use of the word "cloud" makes reference to the two essential concepts
- d) All of the mentioned

Answer: a

Explanation: Abstraction and Virtualization are the two essential concepts.

12. Point out the wrong statement.

- a) Azure enables .NET Framework applications to run over the Internet
- b) Cloud Computing has two distinct sets of models
- c) Amazon has built a worldwide network of datacenters to service its search engine
- d) None of the mentioned

Answer: c

Explanation: Google has built mega data centres for its search engine.

13. Which of the following model attempts to categorize a cloud network based on four dimensional factors?

- a) Cloud Cube
- b) Cloud Square
- c) Cloud Service
- d) All of the mentioned

Answer: a

Explanation: Cloud Cube model is mainly used for secure collaboration.

14. Which of the following is the correct statement about cloud types?

- a) Cloud Square Model is meant to show is that the traditional notion of a network boundary being the network's firewall no longer applies in cloud computing
- b) A deployment model defines the purpose of the cloud and the nature of how the cloud is located
- c) Service model defines the purpose of the cloud and the nature of how the cloud is located
- d) All of the mentioned

Answer: b

Explanation: Four types of deployment models exist.

15. Which architectural layer is used as a backend in cloud computing?

- a) cloud
- b) soft
- c) client
- d) all of the mentioned

Answer: a

Explanation: The cloud creates a system where resources can be pooled and partitioned as needed.

16. All cloud computing applications suffer from the inherent _____ that is intrinsic in their WAN connectivity.

- a) noise
- b) propagation
- c) latency
- d) all of the mentioned

Answer: c

Explanation: While cloud computing applications excel at large-scale processing tasks, if your application needs large amounts of data transfer, it may not be the best model for you.

17. Which of the following architectural standards is working with cloud computing industry?

- a) Web-application frameworks
- b) Service-oriented architecture
- c) Standardized Web services
- d) All of the mentioned

Answer: b

Explanation: These standards help to enable different business models that cloud computing vendors can support, most notably Software as a Service (SaaS), Web 2.0 applications, and utility computing.

18. Which of the following is the correct statement?

- a) Cloud computing presents new opportunities to users and developers
- b) Service Level Agreements (SLAs) is small aspect of cloud computing
- c) Cloud computing does not have impact on software licensing
- d) All of the mentioned

Answer: a

Explanation: Because it is based on the paradigm of a shared multi-tenant utility.

19. What is the correct formula to calculate the cost of a cloud computing deployment?

- a) $\text{CostCLOUD} = \sum(\text{UnitCostCLOUD} / (\text{Revenue} + \text{CostCLOUD}))$
- b) $\text{CostCLOUD} = \sum(\text{UnitCostCLOUD} / (\text{Revenue} - \text{CostCLOUD}))$
- c) $\text{CostCLOUD} = \sum(\text{UnitCostCLOUD} \times (\text{Revenue} - \text{CostCLOUD}))$
- d) None of the mentioned

Answer: b

Explanation: Unit cost is usually defined as the cost of a machine instance per hour or another resource.

20. Which of the following is the wrong statement about cloud computing?

- a) Private cloud doesn't employ the same level of virtualization
- b) Data center operates under average loads
- c) Private cloud doesn't pooling of resources that a cloud computing provider can achieve
- d) Abstraction enables the key benefit of cloud computing: shared, ubiquitous access

Answer: a

Explanation: Capacity of the datacenter is fixed by the assets it has.

21. Identify the wrong statement about cloud computing.

- a) Virtualization assigns a logical name for a physical resource and then provides a pointer to that physical resource when a request is made
- b) Virtual appliances are becoming a very important standard cloud computing deployment object
- c) Cloud computing requires some standard protocols
- d) None of the mentioned

Answer: d

Explanation: Many of these protocols are standard Internet protocols.

22. Identify the correct statement about cloud computing.

- a) Cloud computing relies on a set of protocols needed to manage interprocess communications
- b) Platforms are used to create more complex software
- c) Cloud architecture can couple software running on virtualized hardware in multiple locations to provide an on-demand service
- d) All of the mentioned

Answer: d

Explanation: The most commonly used services uses a set of discovery and description protocols based on WSDL.

23. Point out the wrong statement.

- a) Cloud services span the gamut of computer applications
- b) The impact of cloud computing on network communication is to discourage the use of open source network protocols in place of proprietary protocol
- c) Atom is a syndication format that allows for HTTP protocols to create and update informations
- d) None of the mentioned

Answer: b

Explanation: Microsoft's ADO.NET Data Services Framework is another system for transferring data using a RESTful transaction and standard HTTP commands.

24. Which of the following is required by Cloud Computing?

- a) That the identity be authenticated
- b) That the authentication be portable
- c) That you establish an identity
- d) All of the mentioned

Answer: d

Explanation: When applied to a number of users in a cloud computing system, these requirements describe systems that must provision identities.

25. Cloud computing is a concept that involves pooling physical resources and offering them as which sort of resource?

- a) cloud
- b) real
- c) virtual
- d) none of the mentioned

Answer: c

Explanation: Cloud computing means providing services like storage, servers, database, networking, etc. over the internet. It is a new model for provisioning resources, for staging applications, and for platform-independent user access to services.

26. Which of the following is the Cloud Platform provided by Amazon?

- a) AWS
- b) Cloudera
- c) Azure
- d) All of the mentioned

Answer: a

Explanation: Amazon Web Services (AWS), an Infrastructure as a Service (IaaS) offering that allows users to rent virtual machines on Amazon's own infrastructure, is one of the most successful cloud-based enterprises.

27. Into which expenditures does Cloud computing shift capital expenditures?

- a) local
- b) operating
- c) service
- d) none of the mentioned

Answer: b

Explanation: The nature of the service provider and its connection with its client is changing as a result of cloud computing.

28. Point out the wrong statement.

- a) With a pay-as-you-go, endlessly expandable, and universally available system, cloud computing realises the long-held goal of utility computing
- b) The widespread use of the Internet enables the huge size of cloud computing systems
- c) Soft computing represents a significant change in the way computers are delivered
- d) All of the mentioned

Answer: c

Explanation: Cloud computing is differentiated by the idea that resources are virtual and infinite, and that the user is shielded from the specifics of the actual infrastructure on which software operates.

29. Which of the following is the most essential element in cloud computing by CSA?

- a) Virtualization
- b) Multi-tenancy
- c) Identity and access management
- d) All of the mentioned

Answer: b

Explanation: Multi-tenancy refers to hosting shared among multiple customers.

Multi-tenancy introduces a variety of new security problems to cloud computing that must be addressed.

30. Which of the following monitors the performance of the major cloud-based services in real time in Cloud Commons?

- a) CloudWatch
- b) CloudSensor
- c) CloudMetrics
- d) All of the mentioned

Answer: b

Explanation: The Cloud Commons is a new online community founded by CA to promote information exchange on cloud service and the SMI standard.

31. Which of the following model consists of the service that you can access on a cloud computing platform?

- a) Deployment
- b) Service
- c) Application
- d) None of the mentioned

Answer: b

Explanation: The sort of service that the service provider provides is described by the service model. Three types of service provided are:

- 1) Platform-as-a-Service
- 2) Software-as-a-Service
- 3) Infrastructure-as-a-Service

32. Which of the following is the most important area of concern in cloud computing?

- a) Scalability
- b) Storage
- c) Security
- d) All of the mentioned

Answer: c

Explanation: When your data goes to and is stored on systems that are no longer under your control, you run the risk of it being intercepted or misused by outsiders. Only an authorized user can access the save data.

33. Which of the following is the most refined and restrictive cloud service model?

- a) PaaS
- b) IaaS
- c) SaaS
- d) CaaS

Answer: a

Explanation: The most refined and restrictive service model is when a service needs the client to use the entire hardware/software/application stack.

34. Which of the following is not a property of cloud computing?

- a) virtualization
- b) composable
- c) scalability
- d) all of the mentioned

Answer: b

Explanation: Virtualization is achieved by creating a virtual environment of storage devices and server operating systems. Composability is the ability to build applications from component parts.

35. How many phases are there in Cloud Computing Planning?

- a) 1
- b) 5
- c) 3
- d) 6

Answer: c

Explanation: Strategy Phase, Planning Phase, and Deployment Phase are the three phases of Cloud Planning.

36. Which of the following is an example of a SaaS cloud service?

- a) Google Workspace
- b) Dropbox
- c) Salesforce
- d) All of the above

Answer: d

Explanation: SaaS stands for Software-as-a-Service. In SaaS, the provider hosts the application and is made available to the users. Google Workspace, Dropbox, Salesforce are examples of an IaaS service.

37. Which is the most essential concept related to Cloud computing?

- a) Abstraction
- b) Reliability
- c) Productivity
- d) All of the mentioned

Answer: a

Explanation: The abstraction layer abstracts and controls resources using a reference object, making it easier for users to transfer programs to multiple clouds. The details of system implementation from users and developers are abstracted by Cloud computing.

38. In which of the following service models the hardware is virtualized in the cloud?

- a) NaaS
- b) PaaS
- c) CaaS
- d) IaaS

Answer: d

Explanation: Infrastructure-as-a-Service (IaaS) is an acronym for Infrastructure-as-a-Service. Users of IaaS get computer resources such as software or hardware tools through the internet. In this model, the service vendor owns the equipment: servers, storage, network infrastructure, and so forth.

39. Which of the following is the Virtual machine conversion cloud?

- a) Amazon CloudWatch
- b) AbiCloud
- c) BMC Cloud Computing Initiative
- d) None of the mentioned

Answer: c

Explanation: BMC Cloud Computing Initiative is used for Cloud planning, lifecycle management, optimization, and guidance.

40. Which of the following is a workflow control and policy based automation service by CA?

- a) CA Cloud Compose
- b) CA Cloud Insight
- c) CA Cloud Optimize
- d) CA Cloud Orchestrate

Answer: d

Explanation: CA Cloud Insight is a cloud metrics measurement service.

41. An application that provides for transaction overflow in a reservation system is an example of _____

- a) cloud bursting
- b) cloud provisioning
- c) cloud servicing
- d) all of the mentioned

Answer: a

Explanation: Most systems built to perform cloud bursting have a simple underlying design.