



Cloud Computing MCQ

Computer Science SL (High School - Global)

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 tenancy?

- 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?
- a. hardware virtual machine
 - b. software virtual machine
 - c. real machine
 - d. 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?
- a. Virtual Machine (VM)
 - b. Virtualize Data Center (VDC)
 - c. Virtual Machine Manager (VMM)
 - d. None

Answer: b] Virtualize Data Center (VDC)

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

Answer: d] All of the Above

43. Advantages of Server Virtualization
- a. Reduced need for physical infrastructure
 - b. Possible memory over commits
 - c. Experienced staff needed
 - d. 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) Elastra

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) Elastra

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 that 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