**Virtualization and Cloud Computing**

Course Code: **BTCS15F6200**

Semester: **V**I

**Question Bank**

**UNIT:1**

**Introduction to Cloud Computing**

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

A) Cloud backup

B) Web applications

C) Business applications

D) All of the mentioned

2. Point out the correct statement.

A) Google’s cloud includes perhaps some 10 data centers worldwide

B) Flipkart.com’s infrastructure was built to support elastic demand so the system could accommodate peak traffic

C) Data centers have been sited to optimize the overall system latency

D) All of the mentioned

3. Which of the following benefit is related to creates resources that are pooled together in a system that supports multi-tenant usage?

A) On-demand self-service

B) Broad network access

C) Resource pooling

D) All of the mentioned

4. The \_\_\_\_\_ is something that you can obtain under contract from your vendor.

A) PoS

B) QoS

C) SoS

D) All of the mentioned

5.Point out the wrong statement.

A) Internet consumes roughly 1 percent of the world’s total power

B) The cost advantages of cloud computing have enabled new software vendors to create productivity applications

C) A client can provision computer resources without the need for interaction with cloud service provider personnel

D) None of the mentioned

6. 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

7. Which term best describes the ability to rapidly increase user accounts for a given cloud service?

A) Volatility

B) Synchronicity

C) Viability

D) Elasticity

8.Your company runs a virtualized web application server in-house,You decide to make the web applications available over the Internet through a cloud provider,Which method represents the quickest way to accomplish this?

A) Create a new cloud server, install web services,and install and configure web applications.

B) Create a new cloud server, install web services,and import web application data.

C) Migrate your in-house web application server to the cloud.

D) This cannot be done — only generic applications are available through the cloud.

9. Purchasing software and providing it to a third party that installs and manages that software is an example of which of the following?

A) Virtualization

B) Application service provider

C) Platform as a service

D) Private cloud

10.You are the IT director for a retail clothing outlet,Your competitors are using Internet-delivered inventory storage and backup solutions from a specific provider,You conclude it is best that your company use the same services from the same provider,What type of cloud will you be subscribing to?

A) Community cloud

B) Retail cloud

C) Private cloud

D) Public cloud

11.As a developer for a software company, you have decided to build and test your web applications in a cloud environment,Which type of cloud service best meets your needs?

A) PaaS

B) SaaS

C) IaaS

D) Xaas

12. What cloud computing characteristic ensures services and data are always reachable?

A) Confidentiality

B) Integrity

C) Availability

D) Scalability

13. You must ensure that your business computing resources can quickly grow as business demands change,Which of the following allows this?

A) Confidentiality

B) Integrity

C) Availability

D) Scalability

14.Which of the following is most important area of concern in cloud computing ?

A) Security

B) Storage

C) Scalability

D) None

15.Which of the following is one of the unique attribute of Cloud Computing ?

A) utility type of delivery

B) elasticity

C) low barrier to entry

D) all of the above

16. Which of the following cloud concept is related to pooling and sharing of resources ?

A) Polymorphism

B) Virtualization

C) Abstraction

D) None of the mentioned

17. Point out the wrong statement

A) A cloud is defined as the combination of the infrastructure of a datacenter 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) All of the above

18. The \_\_\_\_\_\_\_\_\_ 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

19.The \_\_\_\_\_\_\_\_ refers to the location and management of the cloud infrastructure.

A) Service

B) Deployment

C) Application

D) None of the mentioned

20.Which of the following is the deployment model?

A) public

B) private

C) hybrid

D) all of the mentioned

21. Point out the correct statement.

A) A deployment model defines the purpose of the cloud and the nature of how the cloud is located

B) 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 is that the traditional notion of a network boundary being the network firewall no longer applies in cloud computing

D) All of the mentioned

22.The \_\_\_\_\_\_\_\_ cloud infrastructure is operated for the exclusive use of an organization.

A) Public

B) Private

C) Community

D) All of the mentioned

23. Which provides virtual machines, virtual storage, virtual infrastructure, and other hardware assets.

A) IaaS

B) SaaS

C) PaaS

D) All of the mentioned

24. Point out the wrong statement.

A) A PaaS service adds integration features, middleware, and other orchestration and choreography services to the IaaS model

B) XaaS or anything as a service is the delivery of IT as a Service through hybrid Cloud computing

C) Monitoring as a Service (MaaS) is at present still an emerging piece of the Cloud jigsaw

D) None of the mentioned

25.With cloud computing services, hardware purchases, software purchases, and IT support are the responsibility of whom?

A) Internet service provider

B) PaaS provider

C) SaaS provider

D) Application service provider

26. When you add a software stack, such as an operating system and applications to the service,the model shifts to \_\_\_\_\_ model.

A) SaaS

B) PaaS

C) IaaS

D) All of the mentioned

27. Which of the following is most refined and restrictive service model ?

A) IaaS

B) CaaS

C) PaaS

D) All of the mentioned

28. 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

29. Cloud computing is a \_\_\_\_\_\_\_ system and it is necessarily unidirectional in nature.

A) stateless

B) stateful

C) reliable

D) None of the above

30. Which of the following is best known service model ?

A) SaaS

B) IaaS

C) PaaS

D) All of the mentioned

31.Which of the following is related to service provided by Cloud ?

A) Sourcing

B) Ownership

C) Reliability

D) AaaS

32. Which is a complete operating environment with applications, management and the user interface.

A) IaaS

B) SaaS

C) PaaS

D) All of the mentioned

33. Which of the following cloud concept is related to pooling and sharing of resources ?

A) Polymorphism

B) Abstraction

C) Virtualization

D) None of the mentioned

34. The contract for performance negotiated between user and a service provider is called \_\_\_\_\_\_\_\_ Level Agreement.

A) Service

B) Application

C) Deployment

D) All of the mentioned

35. Which of the following is specified parameter of SLA ?

A) Response times

B) Responsibilities of each party

C) Warranties

D) All of the mentioned

36. Which of the architectural layer is used as backend in cloud computing ?

A) client

B) cloud

C) soft

D) All of the mentioned

37. which one is a cloud requires virtualized storage to support the staging and storage of data.

A) soft

B) compute

C) local

D) None of the mentioned

38.Point out the wrong statement

A) Virtual appliances are becoming a very important standard cloud computing deployment object

B) Cloud computing requires some standard protocols

C) Cloud computing relies on a set of protocols needed to manage interprocess communications

D) None of the mentioned

39.Which of the following is Cloud Platform by Amazon ?

A) Azure

B) AWS

C) Cloudera

D) All of the mentioned

40. Cloud computing is an abstraction based on the notion of pooling physical resources and presenting them as a \_\_\_\_\_\_\_\_ resource.

A) real

B) virtual

C) cloud

D) None of the mentioned

41. Which of the following cloud concept is related to pooling and sharing of resources?

A) Polymorphism

B) Abstraction

C) Virtualization

D) None of the mentioned

42.Which of the following type of virtualization is also characteristic of cloud computing?

A) Storage

B) Application

C) CPU

D) All of the Above

43.What facet of cloud computing helps to guard against downtime and determines costs?

A) Service-level agreements

B) Application programming interfaces

C) Virtual private networks

D) Bandwidth fees

44. Cloud Services have a\_\_\_\_\_\_\_\_ relationship with their customers.

A) Many-to-many

B) One-to-many

C) One-to-one

D) None of the Name

45. What is the most popular use case for public cloud computing today?

A) Test and development

B) Website hosting

C) Disaster recovery

D) Business analytics

46. Virtual Machine Ware (VMware) is an example of

A) Infrastructure Service

B) Platform Service

C) Software Service

D) None of the above

47. Geographic distribution of data across a cloud provider's network is a problem for many enterprises because it

A) Makes data recovery harder

B) Adds latency

C) Raises security concerns

D) Breaks compliance regulations

48. Amazon Web Services is which type of cloud computing distribution model?

A) Software as a Service

B) Platform as a Service

C) Infrastructure as a Service

D) Software software as a service

49. Cloud computing networks are designed to support only private or hybrid clouds.

A) True

B) False

50. A good cloud computing network can be adjusted to provide bandwidth on demand.

A) True

B) False

51. A larger cloud network can be built as either a layer 3 or layer 4 network.

A) True

B) False

52. The typical three-layer switching topology will not create latency within a cloud network.

A) True

B) False

53. The term Cloud in cloud-computing refers to \_\_\_\_\_\_.

A) The Internet

B) Cumulus Clouds

C) A Computer

D) Thin Clients

54. which one is allows different operating systems to run in their own memory space.

A) VVM

B) VMC

C) VMM

D) All of the mentioned

55. Which service is a cloud computing infrastructure that creates a development environment upon which applications may be build.

A) Infrastructure

B) Platform

C) Service

D) All of the mentioned

56. Which of the following cloud concept is related to pooling and sharing of resources?

A) Polymorphism

B) Abstraction

C) Virtualization

D) None of the mentioned

57. Logical Network Perimeter can be implemented to

A) isolate IT resources in a cloud from non-authorized users

B) isolate IT resources in a cloud from non-users

C) isolate IT resources in a cloud from cloud consumers

D) all of the above

58. Form of virtualization software that emaluates a physical server.

A) virtual server

B) physical server

C) hybrid server

D) none of the above

59. Point out the wrong statement.

A) Abstraction enables the key benefit of cloud computing: shared, ubiquitous access

B) Virtualization assigns a logical name for a physical resource and then provides a pointer to that physical resource when a request is made

C) All cloud computing applications combine their resources into pools that can be assigned on demand to users

D) All of the mentioned

60.Which of the following type of virtualization is also characteristic of cloud computing?

A) Storage

B) Application

C) CPU

D) All of the mentioned

61. Point out the correct statement

A) A client can request access to a cloud service from any location

B) A cloud has multiple application instances and directs requests to an instance based on conditions

C) Computers can be partitioned into a set of virtual machines with each machine being assigned a workload

D) All of the mentioned

62. 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

63.Which of the following type of virtualization is also characteristic of cloud computing?

A) Storage

B) Application

C) CPU

D) All of the mentioned

64. Point out the correct statement

A) A client can request access to a cloud service from any location

B) A cloud has multiple application instances and directs requests to an instance based on conditions

C) Computers can be partitioned into a set of virtual machines with each machine being assigned a workload

D) All of the mentioned

65. Which of the following is another name for system virtual machine?

A) hardware virtual machine

B) software virtual machine

C) real machine

D) None of the mentioned

**UNIT:2**

**Cloud Computing Technologies & Cloud Infrastructure Mechanisms**

1 . A \_\_\_\_\_\_\_ service provider gets the same benefits from a compostable system that a user does.

A) CaaS

B) AaaS

C) PaaS

D) All of the mentioned

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a paradigm of distributed computing to provide the customers on-demand, utility based computing service.

A) Remote Sensing

B) Remote Invocation

C) Cloud Computing

D) Private Computing

3.Cloud providers provide cloud services to the cloud users.

A) True

B) False

4.Which of the following is not a cloud stakeholder?

A) Cloud providers

B) Clients

C) End users

D) Cloud users

5. These cloud services are of the form of utility computing i.e. the \_\_\_\_\_\_\_\_\_ uses these services pay-as-you-go model.

A) Cloud providers

B) Clients

C) End users

D) Cloud user

6 .Which of the following is not a type of cloud?

A) Private

B) Public

C) Protected

D) Hybrid

7 .In this type of cloud, an organization rents cloud services from cloud providers on-demand basis.

A) Private

B) Public

C) Protected

D) Hybrid

8.In this type of cloud, the cloud is composed of multiple internal or external cloud

A) Private

B) Public

C) Protected

D) Hybrid

9\_\_\_\_\_\_\_\_\_\_\_\_ enables the migration of the virtual image from one physical machine to another.

A) visualization

B) virtualization

C) migration

D) virtual transfer

10.Most of the cloud architectures are built on this type of architecture.

A) skeleton

B) grid

C) linear

D) template

11.What is internet?

A) a single network

B) a vast collection of different networks

C) interconnection of local area networks

D) interconnection of wide area networks

12.To join the internet, the computer has to be connected to a \_\_\_\_\_\_\_\_\_

A) internet architecture board

B) internet society

C) internet service provider

D) different computer

13.Which of the following protocols is used in the internet?

A) HTTP

B) DHCP

C) DNS

D) DNS, HTTP and DNS

14.The size of an IP address in IPv6 is \_\_\_\_\_\_\_\_\_

A) 32 bits

B) 64 bits

C) 128 bits

D) 265 bits

15. Internet works on \_\_\_\_\_\_\_

A) packet switching

B) circuit switching

C) both packet switching and circuit switching

D) data switching

16.Which one of the following is not an application layer protocol used in internet?

A) remote procedure call

B) internet relay chat

C) resource reservation protocol

D) local procedure call

17.Which protocol assigns IP address to the client connected in the internet?

A) DHCP

B) IP

C) RPC

D) RSVP

18.Which one of the following is not used in media access control?

A) ethernet

B) digital subscriber line

C) fiber distributed data interface

D) packet switching

19.Saas stands for?

A) Software as a service

B) System Software and services

C) Software as a system

D) System as a service

20. 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

21. Cloud computing is a \_\_\_\_\_\_\_ system and it is necessarily unidirectional in nature.

A) stateless

B) stateful

C) reliable

D) all of the mentioned

22.Which of the following is the most important area of concern in cloud computing?

A) Security

B) Storage

C) Scalability

D) All of the mentioned

23.You can’t count on a cloud provider maintaining your \_\_\_\_\_ in the face of government actions.

A) scalability

B) reliability

C) privacy

D) none of the mentioned

24.Which of the following architectural standards is working with cloud computing industry?

A) Service-oriented architecture

B) Standardized Web services

C) Web-application frameworks

D) All of the mentioned

25. Which type of IT resource can be virtualized ,Physical router and switches can be abstracted in to logical network .

A) Server

B) Storage

C)Network

D)Internet

26.Virtualization technology enables different virtual servers to share one physical server ,this process is called\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A) Resource Replication

B) Hypervisor

C) Server consolidation

D) Hardware Independence

27. Markup language that define the API of a web service including its individual operation and each operation input and output message

A) WSDL

B) SOAP

C) XML schema

D) UDDI

28. An agent is a processing module that collects usage data by having event-driven interaction with specialized resource software

A)Monitoring Agent

B) Resource Agent

C) Polling agent

D) Active agent

29. Which interface that implement cloud storage Device mechanisms typically can be accesses via REST or web service based cloud service using http as the prime protocol.

A) Network Storage Interface

B) Database Storage Interface

C) Block Storage Interface

D) Object storage Interface

30. A\_\_\_\_\_\_\_\_\_\_\_ is a form of virtualization software that emaluates a physical server.

A) virtual server

B) physical server

C) hybrid server

D) none of the above

31.The IT resource that isolates the network environment within the data center infrastructure is called:

A) Virtual Firewall

B) Virtual Network

C) Both of the mentioned

D) None of the mentioned

32.virtual server is a form of virtualization software that emulates:

A) Virtual network

B) Physical Server

C) IT Resource

D) None of the mentioned

33. Which mechanism is used to replicate several instances of a virtual server, using a stored virtual server image.

A) Hyperviser

B) Virtualization

C) Cloud Auditor

D) None of the mentioned

34.Saas stands for?

A) Software as a service

B) System Software and services

C) Software as a system

D) System as a service

35. Internet works on \_\_\_\_\_\_\_

A) packet switching

B) circuit switching

C) both packet switching and circuit switching

D) data switching

36.Which protocol assigns IP address to the client connected in the internet?

A) DHCP

B) IP

C) RPC

D) RSVP

37. An extension of an enterprise’s private intranet across a public network such as the internet, creating a secure private connection is called .

A) VNP

B) VPN

C) VSN

D) VSPN

38. Which of the following is false with respect to UDP?

A) Connection-oriented

B) Unreliable

C) Transport layer protocol

D) Low overhead

39. What is the main advantage of UDP?

A) More overload

B) Reliable

C) Low overhead

D) Fast

40. Which of the following is false with respect to TCP?

A) Connection-oriented

B) Process-to-process

C) Transport layer protocol

D) Unreliable

41. In TCP, sending and receiving data is done as \_\_\_\_\_\_\_

A) Stream of bytes

B) Sequence of characters

C) Lines of data

D) Packets

42. The physical layer is concerned with \_\_\_\_\_\_\_\_\_\_\_

A) bit-by-bit delivery

B) process to process delivery

C) application to application delivery

D) port to port delivery

43. The data link layer takes the packets from \_\_\_\_\_\_\_\_\_ and encapsulates them into frames for transmission.

A) network layer

B) physical layer

C) transport layer

D) application layer

44. The network layer is concerned with \_\_\_\_\_\_\_\_\_\_ of data.

A) bits

B) frames

C) packets

D) bytes

45. Transport layer aggregates data from different applications into a single stream before passing it to \_\_\_\_\_\_\_\_\_\_\_\_

A) network layer

B) data link layer

C) application layer

D) physical layer

46. Which of the following are transport layer protocols used in networking?

A) TCP and FTP

B) UDP and HTTP

C) TCP and UDP

D) HTTP and FTP

47. This is a repository for the storage, management, and dissemination of data in which the mechanical, lighting, electrical and computer systems are designed for maximum energy efficiency and minimum environmental impact.

A) Storage lab

B) Data Center

C) Data warehouse

D) Fabric

48. Resource \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is defined as the creation of multiple instances of the same IT resource.

A) Management

B) Provisioning

C) Replication

D) Allocation

49. virtual server is a form of virtualization software that emulates:

A) Virtual network

B) Physical Server

C) IT Resource

D) None of the mentioned

50. Which mechanism is used to replicate several instances of a virtual server, using a stored virtual server image.

A) Hyperviser

B) Virtualization

C) Cloud Auditor

D) None of the mentioned

51.Which of the following type of virtualization is also characteristic of cloud computing?

A) Storage

B) Application

C) CPU

D) All of the mentioned

52. An IT resource that actively filters network traffic to and from the isolated network while controlling its interactions with the Internet.

A) Virtual Firewall

B) Virtual Network

C) Both of the mentioned

D) None of the mentioned

53. Point out the correct statement.

A) A virtual machine is a computer that is walled off from the physical computer that the virtual machine is running on

B) Virtual machines provide the capability of running multiple machine instances, each with their own operating system

C) The downside of virtual machine technologies is that having resources indirectly addressed means there is some level of overhead

D) All of the mentioned

54.What is the full form of "FTP"?

A) File Tranmitting Protocol

B) File Transfer Protocol

C) Fast Transfer Protocol

D) Fast Transmitting Project

55.What is the full form of "HTTP"?

A) High Transfer Terra Page

B) Higher Transfer Technology Protocol

C) Hypertext Transfer Protocol

D) Hive Type Terminal Protocol

56.What is the full form of "ISP"?

A) Internet Service Provider

B) Internal Service Processor

C) International Server Provider

D) Internet System Processor

57.What is the full form of "OSI"?

A) Organisational Server Interface

B) Open Server Interconnection

C) Operating System Interface

D) Open System Interconnection

58.What is the full form of "SMTP"?

A) Structured Mail Transfer Protocol

B) Simple Mail Transmitting Protocol

C) Simple Mail Transfer Protocol

D) Server Mail Transfer Protocol

59. Storge area network storage model, the operating system view storage resources as\_\_\_\_\_ devices

A) FC

B) SCSI

C) SAN

D) None of the mentioned

**UNIT:3**

**Specialized Cloud Mechanisms & Cloud Management Mechanisms**

1. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ mechanism is used to specifically observe the runtime performance of cloud services to ensure that they are fulfilling the conteactual QoS requirements that are published in SLAs.

A) SLA Monitor

B) Load Balancer

C) Pay-Per-Use Monitor

D) Audit Monitor

2. The data collected by the SLA monitor is processed by an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to be aggregated into SLA reporting metrics.

A) SLA administration system

B) SLA failure system

C) SLA management system

D) SLA auditing system

3. The physical server polling has consecutively timed out three times, this generated event is termed as:

A) PS\_Timeout

B) PS\_Unreachable

C) PS\_Reachable

D) VM\_Unreachable

4. The previously unavailable physical server becomes responsive to polling again, this generated event is termed as:

A) VM\_Reachable

B) PS\_Timeout

C) PS\_Reachable

D) VM\_Unreachable

5. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ mechanism measures cloud-based IT resource usage in accordance with predefined pricing parameters and generates usage logs for fee calculations and billing purposes.

A) Audit Monitor

B) SLA Monitor

C) Automated Scaling Listener

D) Pay-Per-Use Monitor

6. The information that is used to identify the type of pricing model for usage fee calaculations, including pre-paid subscription with usage quota, post-paid subscription with maximum usage quota is termed as:

A) Resource Usage Quota Consumption

B) Cloud Consumer Subscription Type

C) Resource Usage Category

D) Bandwidth Consumption

7. The billing management system uses this information to identify the range of usage fees that are applicable to each usage event. This particular information is termed as:

A) Resource Usage Quota Consumption

B) Cloud Consumer Subscription Type

C) Resource Usage Category

D) Bandwidth Consumption

8. When usage contracts define IT resource usage quotas, usage event conditions are typically supplemented with quota consumption and updated quota limits. This type of consumption is termed as:

A) Resource Usage Quota Consumption

B) Cloud Consumer Subscription Type

C) Resource Usage Category

D) Bandwidth Consumption

9. A pay-per-use monitor implemented as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ used to determine the usage period of a virtual server.

A) Resource Auditor

B) Resource Broker

C) Resource Admin

D) Resource Agent

10. A pay-per-use monitor designed as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that transparently intercepts and analyzes runtime communication with a cloud service.

A) Resource Auditor

B) Monitoring Agent

C) Service Agent

D) Resource Agent

11. A monitoring agent that collects tracking data for networks and IT resources is Called

A) Load balancer

B) Audit Monitor

C) Automated Scaling Listener

D) Pay-per use Monitor

12. Which of the following are not Cloud management mechanisms

A) Remote Administration system

B) SLA Management System

C) Audit Monitor System

D) Billing Management System

13.Failover System can be defined as

A) A system to increase the reliability and availability of IT resources by using established clustering technology to provide redundant implementations

B) A resource agent that monitors and keeps track of the runtime performance of cloud services.

C) The Failure of the system

D) None of the mentioned

14.Failover System include

A) Only Active-Active

B) Only Active-Passive

C) None of the mentioned

D) Both the mentioned

15. The monitoring agent that intercepts login requests and stores the requestors security credentials, as well as both failed attempts in a log database for future audit reporting purposes.

A) Pay-per-use monitor

B) SLA Monitor

C) Audit Monitor

D) Cloud Usage Monitor

16. The mechanism that rely on the resource replication mechanism to supply the redundant IT resource instances is called

A) Failover systems

B) Hypervisor

C) Load balancer

D) Resource Cluster

17. The Specialized cloud mechanism used to intercept the response message and stores the entire collected login event details in the log database

A) Pay-per-use monitor

B) Audit Monitor

C) SLA Monitor

D) Cloud Usage Monitor

18.The implementation mecahnism used in the failoversystems are

A) Hypervoiser

B) Resource replication

C) SLA Monitor

D) Cloud Auditor

19. DAS-based: periodic synchronization can also be reffered as

A) SAN Based

B) NAS based

C) None of mentioned

D) WORM based

20. A state management database is a

A) Network Device

B) Storage Device

C) Software Program

D) Router

21. Storage management database is used to make software programs more

A) available

B) reliable

C) scalable

D) secure

22. The cloud management mechanism

A) Remote Administration System

B) Resource Management System

C) Billing Management System

D) All of the above

23. The tools and APIs provided by remote administration system are used by

A) Cloud Provider

B) Cloud Consumer

C) Both cloud provider and cloud consumer

D) None of the above

24. The tools and user interfaces for external cloud resource admininstrators to configure and asminister cloud based IT resources is provided by

A) SLA Management System

B) Resource Management System

C) Billing Management System

D) Remote Administration System

25. The task performed by cloud consumers via a remote administration console is/are

A) monitoring cloud service status

B) managing leasing costs

C) capacity planning

D) All of the above

26. The primary types of portal created with remote administration system is/are

A) usage and administration portal

B) self-service portal

C) Both A and B

D) None of the above

27. In remote administration system, the task of planning and assessing IT resource provisioning is performed by

A) Cloud Provider

B) Cloud Consumer

C) Cloud Broker

D) Cloud Auditor

28. The self service portal in remote administration system is used by \_\_\_\_\_\_\_\_\_ to search cloud services.

A) Cloud Provider

B) Cloud Consumer

C) Cloud Owner

D) Cloud Broker

29. The resource management system mechanism helps cocordinate IT resources in response to management actions performed by both

A) cloud consumers and cloud services

B) cloud consumers and cloud providers

C) none of the above

D) all of the above

30. A \_\_\_\_\_\_\_\_\_\_\_ is the core of the resource management system that coordinatesthe server hardware so that virtual server instances can be created from the underlying physical server.

A) virtual server

B) resource management system

C) virtual infrastructure manager

D) physical server

31.Which of the following is NOT the task of resource management system

A) managing virtual IT resources

B) allocating and releasing the virtual IT resources

C) monitoring QoS and SLA fulfillment

D) monitoring operational conditions of IT resources

32. A resource management system consist of .

A) VIM platform and VIM image repository

B) usage and administration portal

C) self-service portal

D) None of the above

33. An service level agreement management system mechanism encompassing an \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_.

A) usage and administration portal

B) VIM platform and VIM image repository

C) pricing and contract manager

D) SLA manager and QoS measurement repository

34. Queries can be issued and reports can be generated for an externalcloud resource admjnistrator via \_\_\_\_\_\_\_\_\_.

A) usage and administration portal

B) pricing and contract manager

C) SLA manager and QoS measurement repository

D) None

35. The metrics monitored for individual cloud services are aligned with the SLA gurantees in corresponding cloud provisioning contracts through \_\_\_\_\_\_\_\_\_\_.

A) Remote Administration System

B) Resource Management System

C) SLA Management system

D) All

36. \_\_\_\_\_\_\_\_ can create and manage multiple instances of a hypervisor across different physical servers or allocate a virtual server on one physical server

A) Resource managment system

B) Virtual machnine

C) VIM

D) Virtual server

37.The SLA monitor polls the cloud service that sends

A) polling request messages

B) Polling response messages

C) both of the above

D) none of the above

38. The self service portal in remote administration system is used by \_\_\_\_\_\_\_\_\_ to search cloud services.

A) Cloud Provider

B) Cloud Consumer

C) Cloud Owner

D) Cloud Broker

39. \_\_\_\_\_\_\_mechanism is used to group multiple IT resource instances so that they can be operated as single IT resource.

A) Hypervisor

B) Multi Tenant

C) Resource Cluster

D) Resource Replication

40 Above \_\_\_\_\_\_\_ layer a hypervisor is installed.

A) Network Layer

B) Application Layer

C) Physical Layer

D) Transport Layer

41.\_\_\_\_\_\_\_ mechanism is used to generate virtual server instances of a physical server.

A) Resource Cluster

B) Hypervisor

C) VM Ware

D) Load Balancer

42. Resource Cluster architectures rely on

A) High Speed Network Connection

B) High Speed dedicated Network Connection

C) Hypervisor

D) All of the above

43. Database clusters are designed to improve \_\_\_\_\_\_\_\_\_\_\_\_

A) Data Availability

B) Redundancy

C) Auditing

D) All of the above

44.\_\_\_\_\_\_ Cluster specializes in distributing workloads among cluster nodes to increse IT resource capaacity, while preserving the centralization of IT resource management.

A) Load balanced Cluster

B) HA cluster

C) Large Data set Cluster

D) Server Cluster

45.\_\_\_\_\_\_ Cluster is used to data partitioning and distribution so that target data sets can be efficiently partitioned without compromising data integrity.

A) Load balanced Cluster

B) HA cluster

C) Large Data set Cluster

D) Server Cluster

46.\_\_\_\_\_\_ maintains a system availability in the event of multiple node failures.

A) Load balanced Cluster

B) HA cluster

C) Large Data set Cluster

D) Server Cluster

47. Hypervisor software provides \_\_\_\_\_\_ features.

A) Scheduling

B) Sharing

C) Controlling

D) All of the above

48. Load Balanced cluster usually implements a load balanced mechanism \_\_\_\_\_\_\_

A) Either embedded within the cluster management platform

B) Setup as a seperate IT Resource.

C) Both A and B

D) None of the above

49.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ transforms the communication protocols used by mobile devices into protocols that are compatible with a cloud service.

A) Mobile Device Gateway

B) XML Gateway

C) Cloud Storage Gateway

D) HTTP Gateway

50.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ia a general purpose portal that centralizes management controls to different cloud-based IT resources.

A) Self-Service Portal

B) Usage and Administration Portal

C) Custom IT Resource Management Portal

D) On-Premise IT Resource Portal

**UNIT:4**

**Virtualization**

1.An virtualization layer used for different user applications managed by their own operating systems (guest OS) can run on the same hardware, independent of the host OS is refereed as

A) hypervisor

B) virtual machine monitor

C) Both the mentioned

D) None

2. 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

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

A) VMM

B) VMC

C) VNM

D) all of the mentioned

4. Which of the following is Type 1 Hypervisor?

A) Wind River Simics

B) Virtual Server 2005 R2

C) KVM

D) LynxSecure

5. Which of the following type of virtualization is found in hypervisor such as Microsoft’s Hyper-V?

A) paravirtualization

B) full virtualization

C) emulation

D) none of the mentioned

6. In \_\_\_\_\_\_\_ the virtual machine simulates hardware, so it can be independent of the underlying system hardware.

A) paravirtualization

B) full virtualization

C) emulation

D) none of the mentioned

7. Point out the wrong statement.

A) Full virtualization requires that the host operating system provide a virtual machine interface for the guest operating system and that the guest access hardware through that host VM

B) Guest operating systems in full virtualization systems are generally faster than other virtualization schemes

C) a process virtual machine instantiates when a command begins a process

D) all of the mentioned

8. In a \_\_\_\_\_\_\_\_\_\_\_\_ scheme, the VM is installed as a Type 1 Hypervisor directly onto the hardware.

A) paravirtualization

B) full virtualization

C) emulation

D) none of the mentioned

9. at the ISa level, virtualization is performed by emulating a given ISa by the ISa of

A) Virtual machine

B) Host machine

C) Guest OS

D) none of the mentioned

10. Hardware-level virtualization is performed right on top of which harware devices

A) processors

B) memory

C) I/O devices

D) all of the mentioned

11. vCUDa which allows applications executing within VMs to leverage GPU hardware acceleration is an exapmle for

A) hardware abstraction Level

B) Os-level Level

C) Library Support Level

D) User application Level

12. The most popular approach which is to deploy high level language (HLL)VMs.

A) hardware abstraction Level

B) Os-level Level

C) Library Support Level

D) User application Level

13. Virtulization can be implemeted in

A) hardware abstraction Level

B) Os-level Level

C) Library Support Level

D) all the mentioned

14. which virtualization implementation level has more application flexibility

A) hardware abstraction Level

B) Instrction set architecture level

C) Library Support Level

D) User application Level

15. which virtualization implementation level has more implementation complexity

A) hardware abstraction Level

B) Instrction set architecture level

C) Library Support Level

D) User application Level

16. which virtualization implementation level has higher performance

A) hardware abstraction Level

B) Instrction set architecture level

C) Library Support Level

D) User application Level

17. the basic concept of the vCUDa architecture consists of

A) the vCUDa library

B) a virtual GPU in the guest OS

C) vCUDa stub in the host OS

D) all the mentioned

18. noncritical instructions run on the hardware directly while critical instructions are discovered and replaced with traps into the VMM to be emulated by software in

A) Full Virtualization

B) para Virtualization

C) Host- based Virtualization

D) None

19. the type of Virtualization replaces nonvirtualizable instructions with hypercalls that communicate directly with the hypervisor or VMM

A) Full Virtualization

B) para Virtualization

C) Host- based Virtualization

D) None

20. In Para-Virtualization architecture ring-0 defines

A) para virualized guest-os

B) host-os

C) user apps

D) virtialization layer

21. Which of the following type of virtualization is also characteristic of cloud computing?

A) Storage

B) application

C) CPU

D) all of the mentioned

22. In Para-Virtualization architecture ring-3 defines

A) para virualized guest-os

B) host-os

C) user apps

D) virtialization layer

23. Ring 0 represents In Para-Virtualization architecture

A) level having most privilege

B) level having least privilege

C) None

24. Ring 3 represents In Para-Virtualization architecture

A) level having most privilege

B) level having least privilege

C) None

25. KVM (Kernel-Based VM) is a

A) Full Virtualized system

B) para Virtualized system

C) Host- based Virtualized system

D) None

26. hypervisor kernel provides the same functionality as other operating systems, such as process creation, file system management, and process scheduling. It is designed to specifically support multiple virtual machines and to provide core functionalities, such as resource scheduling, I/O stacks, etc.

A) Hypervisor Components - VMM

B) Hypervisor Components - Kernel

C) Resource Control - Share

D) vSphere Key Components