



# BRAINWARE UNIVERSITY

**Term End Examination 2021 - 22**

**Programme – Bachelor of Technology in Computer Science & Engineering**

**Course Name – Cloud Computing**

**Course Code - BCSE603**

**( Semester VI )**

**Time allotted : 1 Hrs.25 Min.**

**Full Marks : 70**

[The figure in the margin indicates full marks.]

## Group-A

(Multiple Choice Type Question)

1 x 70=70

*Choose the correct alternative from the following :*

- (1) Which of the following can be identified as cloud?
 

a) Web Applications	b) Hadoop
c) Intranet	d) All of these
- (2) Cloud computing is an abstraction based on the notion of pooling physical resources and presenting them as a \_\_\_\_\_ resource.
 

a) Real	b) Cloud
c) Virtual	d) None of these
- (3) A hybrid cloud combines multiple clouds where those clouds retain their unique identities but are bound together as a unit.
 

a) Public	b) Community
c) Private	d) Hybrid
- (4) In this type of cloud, the cloud is composed of multiple internal or external cloud
 

a) Public	b) Private
c) Protected	d) Hybrid
- (5) Applications that work with cloud computing that have low margins and usually low risk are \_\_\_\_\_
 

a) High touch	b) Low touch
c) Moderate touch	d) None of these
- (6) An internal cloud is
 

a) An overhanging threat	b) A career risk for a CIO
c) A cloud that sits behind a corporate firewall	d) The group of knowledge workers who use a social network for water cooler gossip
- (7) Cloud computing is a \_\_\_\_\_ system
 

a) Stateless	b) Stateful
c) Reliable	d) None of these
- (8) Which of the following cloud concept is related to pooling and sharing of resources ?
 

a) Polymorphism	b) Virtualization
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- c) Abstraction d) None of these
- (9) A company needs to provide IT services to a worldwide customer base utilizing a diverse set of devices. Which attribute of cloud computing can help the company deliver such services?
- a) Pervasiveness b) Flexible pricing  
c) Vertical scaling of application servers d) Horizontal scaling of application servers
- (10) What is one benefit of a cloud computing environment?
- a) It reduces server performance b) It minimizes network traffic to the virtual machines  
c) It automatically transforms physical servers into virtual machines d) None of these
- (11) All cloud computing applications suffer from the inherent \_\_\_\_\_ that is intrinsic in their WAN connectivity.
- a) Propagation b) Latency  
c) Noise d) None of these
- (12) Which of the following is one of the properties that differentiates cloud computing?
- a) Scalability b) Virtualization  
c) Composability d) All of these
- (13) Which of the following initiative tries to provide a way of measuring cloud computing services a long dimension like cost ?
- a) CCE b) OCCI  
c) SMI d) All of these
- (14) Which of the following is the most widely used technique for abstraction?
- a) Load balancing b) Load scheduling  
c) Load scaling d) All of these
- (15) Which of the following is a potent cloud-building technology?
- a) vSphere b) HyperCube  
c) vCube d) All of these
- (16) A set of highly integrated machines that run same process in parallel is known to be
- a) Tightly-Coupled b) Loosely-Coupled  
c) Space-Based d) Peer-to-Peer
- (17) Which cloud computing feature allows for server consolidation resulting in increased asset utilization and decreased data center energy needs?
- a) Virtualization b) Provisioning  
c) Automation d) Governance
- (18) What is a common trait of cloud architectures?
- a) It dictates monolithic application design b) It must use publicly accessible computing resources  
c) A fixed set of computing resources is preallocated to each application d) While in operation the application automatically scales up or down based on resource needs
- (19) Interprocessor communication takes place via
- a) Shared Memory b) Message Passing  
c) Centralized Memory d) Both a and b
- (20) HPC stands for
- a) High-Peripheral Computing b) High-Performance Computing  
c) High-Parallel Computing d) High-Peak Computing
- (21) A computing paradigm in which all computer resources are centralized in one physical system is known to be
- a) Centralized Computing b) Parallel Computing  
c) Distributed Computing d) Cloud Computing

- (22) A dynamic connection that grows into dynamic networks of networks, is called
- Cyber Cycle
  - Internet of Things
  - Cyber-Physical System
  - Multithreading
- (23) An architecture that creates virtualization of one single address space, is called
- Peer-to-Peer
  - Space Based
  - Tightly-Coupled
  - Loosely-Coupled
- (24) A paradigm of multiple autonomous computers, having a private memory, communicating through a computer network, is known as
- Distributed Computing
  - Centralized Computing
  - Cloud Computing
  - Parallel Computing
- (25) Which routing technique is used in a distributed system?
- Dynamic Routing
  - Fixed Routing
  - Virtual Routing
  - All of these
- (26) In distributed systems, link and site failure is detected by
- Polling
  - Token Passing
  - Handshaking
  - None of these
- (27) What is not a major reason for building distributed systems?
- Resource sharing
  - Reliability
  - Computation speed-up
  - Simplicity
- (28) Which of these techniques is vital for creating cloud computing centers?
- Virtualization
  - Transubstantiation
  - Cannibalization
  - Insubordination
- (29) Communication between services is done widely using \_\_\_\_\_ protocol.
- REST
  - RESTful
  - SOAP
  - None of these
- (30) What is the role of virtualization in cloud computing?
- It improves the performance of web applications
  - It removes operating system inefficiencies
  - It optimizes the utilization of computing resources
  - It adds extra load to the underlying physical infrastructure and has no role in cloud computing
- (31) \_\_\_\_\_ enables batch processing, which greatly speeds up high-processing applications.
- Scalability
  - Elasticity
  - Reliability
  - Utility
- (32) Which of the following is Type 2 VM?
- VirtualLogix VLX
  - VMware ESX
  - Xen
  - LynxSecure
- (33) Which of the following operating system support operating system virtualization?
- Windows NT
  - Windows XP
  - Sun Solaris
  - Compliance
- (34) What is the definition of provisioning as an automated process related to cloud computing?
- It moves data from one cloud to another
  - It provides server consolidation capability
  - It adds security constraints to a cloud environment
  - It handles computing resource management processes
- (35) \_\_\_\_\_ blurs the differences between a small deployment and a large one because scales become tied only to demand.
- Leading
  - Virtualization
  - Pooling
  - None of these
- (36) Which billing model is based on the packaging of computing resources (i.e. computation and storage) and the amount of those resources used?

- a) Metered  
c) Recurring
- b) Subscription  
d) Per user based
- (37) The technology used to distribute service requests to resources is referred to as \_\_\_\_\_
- a) Load performing  
c) Load balancing
- b) Load scheduling  
d) All of these
- (38) \_\_\_\_\_ virtualization abstracts networking hardware and software into a virtual network that can be managed.
- a) Storage  
c) Software
- b) Network  
d) None of these
- (39) What are some challenges that existing data centers face as they move toward supporting cloud computing?
- a) Acquiring new servers to support virtualization  
c) Greater energy consumption for the same load of applications
- b) Increased IT labor costs to manage the cloud environment  
d) Storage capacity, data protection, and storage provisioning as instances accumulate and scale up
- (40) Which is considered the most widely used cloud computing service?
- a) IaaS  
c) SaaS
- b) CaaS  
d) PaaS
- (41) A cloud provider offers an environment for building applications that will run from the customer's environment. Which cloud computing delivery model are they using?
- a) Software as a service  
c) Development as a service
- b) Infrastructure as a service  
d) Platform as a service
- (42) Point out the correct statement.
- a) SLAs is small aspect of cloud computing  
c) Cloud computing presents new opportunities to users and developers
- b) Cloud computing does not have impact on software licensing  
d) All of these
- (43) Which of the following is associated with considerable vendor lock-in?
- a) PaaS  
c) SaaS
- b) CaaS  
d) IaaS
- (44) Applications such as a Web server or database server that can run on a virtual machine image are referred to as \_\_\_\_\_
- a) Virtual server  
c) Machine imaging
- b) Virtual appliances  
d) All of these
- (45) Which of the following can be considered PaaS offering ?
- a) Google Maps  
c) Google Earth
- b) Gmail  
d) All of these
- (46) The most commonly used set of protocols uses \_\_\_\_\_ as the messaging format.
- a) XML  
c) JSON
- b) BSON  
d) All of these
- (47) \_\_\_\_\_ is a function of the particular enterprise and application in an on-premises deployment.
- a) Vendor lock  
c) Vendor lock-ins
- b) Vendor lock-in  
d) None of these
- (48) Which refers to the practice of a primary cloud provider offering services that are distributed through another cloud provider?
- a) Hybrid cloud  
c) Grid computing
- b) Composite cloud  
d) Virtualization
- (49) Which of the following language is used to manage transactions?

- a) WSDL  
c) SOAP
- b) XML  
d) None of these
- (50) Which of the following algorithm is used by Google to determine the importance of a particular page?
- a) SVD  
c) FastMap
- b) Page Rank  
d) All of these
- (51) Which of the following is the IaaS service provider?
- a) EC2  
c) EC1
- b) EC10  
d) Hybrid
- (52) These cloud services are of the form of utility computing i.e. the \_\_\_\_\_ uses these services pay-as-you-go model.
- a) Cloud providers  
c) End users
- b) Clients  
d) Cloud users
- (53) Virtual Machine Ware(VMware) is an example of
- a) Infrastructure service  
c) Software service
- b) Platform service  
d) None of these
- (54) SaaS stands for?
- a) Software as a service  
c) System software and services
- b) Software as a system  
d) System as a service
- (55) Which of the following provider rely on virtual machine technology to deliver servers ?
- a) CaaS  
c) PaaS
- b) AaaS  
d) IaaS
- (56) A service provider reselling an \_\_\_\_\_ may have the option to offer one module to customize the information.
- a) CaaS  
c) AaaS
- b) PaaS  
d) SaaS
- (57) Which of the following is classic example of an IaaS service model ?
- a) AWS  
c) Cloudera
- b) Azure  
d) All of these
- (58) The three different service models is together known as the \_\_\_\_\_ model of cloud computing.
- a) CPI  
c) SIP
- b) SPI  
d) MOC
- (59) Which of the following lets a Web service advertise itself in terms of a collection of endpoints?
- a) WSDL  
c) SOAP
- b) VMC  
d) All of these
- (60) SaaS supports multiple users and provides a shared data model through \_\_\_\_\_ model.
- a) Single-tenancy  
c) Multiple-instance
- b) Multi-tenancy  
d) All of these
- (61) What advantage do flexible pricing models provide to customers of a public cloud?
- a) They provide customers with unlimited bandwidth  
c) They provide customers with unlimited storage in the cloud
- b) They enable customers to pay only for what they use  
d) They allow the customers to dynamically increase capacity without additional cost
- (62) Which customer scenario best fits a deployment on a public cloud?
- a) A customer whose IT infrastructure is underutilized  
c) A customer who does not have the IT infrastructure to handle variable system load
- b) A customer who deals with highly sensitive user information  
d) A customer who is not too concerned about security control over their data, and the system load is a

- (63) Which of the following is required by Cloud Computing?
- a) That you establish an identity
  - b) That the identity be authenticated
  - c) That the authentication be portable
  - d) All of these
- (64) Most of the cloud architectures are built on this type of architecture.
- a) Skeleton
  - b) Linear
  - c) Grid
  - d) Template
- (65) What is used to logically assign and separate physical resources such as memory and CPU in a cloud computing model?
- a) Bios
  - b) A blade chassis
  - c) A hypervisor
  - d) A load balancer
- (66) What is Google App Engine for?
- a) Google App Engine is for detecting malicious apps
  - b) Google App Engine is for running web applications on Google's infrastructure
  - c) Google App Engine replaces the modern computer
  - d) Google App Engine is a system to develop hardware interfaces
- (67) Azure Storage plays the same role in Azure that \_\_\_\_\_ plays in Amazon Web Services.
- a) S3
  - b) EC2
  - c) EC3
  - d) All of these
- (68) Which of the following service that provides offline access to online data?
- a) Gears
  - b) Blogger
  - c) Offline
  - d) All of these
- (69) HTC stands for
- a) High-turning computing
  - b) High-tabulation computing
  - c) High-technology computing
  - d) High-throughput computing
- (70) Grid and cloud platforms are regarded as
- a) Parallelized Services
  - b) Innovative Services
  - c) Utility Service Providers
  - d) Cyber Services