

University of Mumbai

Examination June 2021

Examinations Commencing from 1st June 2021

Program: (INFORMATION TECHNOLOGY)

Curriculum Scheme: Rev2016

Examination: TE Semester VI

Course Code: ITC603 and Course Name: Cloud Computing & Services

Time: 2 hour

Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	What type of computing technology refers to services and applications that typically run on a distributed network through virtualized resources?
Option A:	Distributed Computing
Option B:	Cloud Computing
Option C:	Soft Computing
Option D:	Parallel Computing
2.	Which one of the following cloud concepts is related to sharing and pooling the resources?
Option A:	Polymorphism
Option B:	Virtualization
Option C:	Abstraction
Option D:	clustering
3.	Which one of the following refers to the non-functional requirements like disaster recovery, security, reliability, etc.
Option A:	Service Development
Option B:	Quality of service
Option C:	Plan Development
Option D:	Technical Service
4.	Which one of the following can be considered as the example of the Front-end?
Option A:	Web Browser
Option B:	Google Compute Engine
Option C:	Cisco Metapod
Option D:	Amazon Web Services
5.	The Foce.com and windows Azure are examples of which of the following?
Option A:	IaaS
Option B:	Virtualization
Option C:	SaaS
Option D:	PaaS
6.	In which one of the following, the virtual machine simulates hardware, through which it can be independent of the underlying system hardware?
Option A:	OptiPara-virtualization
Option B:	Full virtualization

Option C:	Emulation
Option D:	CLOUD
7.	How can you get disk usage stats in Swift?
Option A:	recon -l
Option B:	swift-recon -d
Option C:	swift-recon -l
Option D:	recon -d
8.	Which of the following techniques can be used for optimizing backed up data space?
Option A:	Encryption and Deduplication
Option B:	Authentication and Deduplication
Option C:	Compression and Deduplication
Option D:	Deduplication only
9.	load balancer operates at the Network layer of the OSI model?
Option A:	Network Load Balancer (NLB)
Option B:	Application Load Balancer (ALB)
Option C:	Host-based Routing
Option D:	Classic Load Balancer (CLB)
10.	Security Group operates at which level?
Option A:	instance level
Option B:	subnet level
Option C:	Route-table level
Option D:	network level
11.	Amazon S3 is?
Option A:	Same Storage System
Option B:	Simple Storage System
Option C:	Simple Storage Service
Option D:	Same Storage Service
12.	In AWS Archiving is done through?
Option A:	Swift
Option B:	Glacier
Option C:	cinder
Option D:	Keystone
13.	Application frameworks provide a means for creating _____ hosted applications using IDE.
Option A:	PaaS
Option B:	SaaS
Option C:	CaaS
Option D:	IDaaS

14.	The _____ allows systems and services to be accessible by a group of organizations.
Option A:	Private cloud
Option B:	Public cloud
Option C:	Community cloud
Option D:	Hybrid cloud
15.	_____ provides the runtime environment for applications, development and deployment tools, etc.
Option A:	IaaS
Option B:	PaaS
Option C:	SaaS
Option D:	XaaS
16.	Which one of the following dimensions is related to the organization's boundaries?
Option A:	The physical location of data
Option B:	Ownership
Option C:	Security boundary
Option D:	Community boundary
17.	Which of the following is a more sophisticated load balancer?
Option A:	workload managers
Option B:	workspace managers
Option C:	rackserve managers
Option D:	Workstation manager
18.	The technology used to distribute service requests to resources is referred to as
Option A:	load performing
Option B:	load scheduling
Option C:	load balancing
Option D:	Load preparing
19.	The terms "IaaS" stand for?
Option A:	IT-as-a-Service
Option B:	Infrastructure-as-a-Service
Option C:	Internet-as-a-Service
Option D:	Interoperability-as-a-Service
20.	Open-system _____ tends to evolve more quickly than proprietary systems.
Option A:	hardware
Option B:	software
Option C:	hardware and software
Option D:	network

Q2	Solve any Two Questions out of Three	10 marks each
A	What is Instance? Draw and explain life cycle of Instances.	
B	Draw and explain Cube model of cloud computing.	
C	Explain the components and architecture of openstack.	

Q3.		
A	Solve any Two	5 marks each
i.	Explain Disaster recovery as a service	
ii.	Explain Bigtable in GFS.	
iii.	Write short note on- Type of hypervisors.	
B	Solve any One	10 marks each
i.	Differentiate between AWS S3 storage and Glacier Storage.	
ii.	Explain the SPI cloud service model.	