

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May2020

Course: Cloud Architecture and Deployment Models
Program: BT-CSE-Spz-ECRA
Course Code: CSEG 379

Semester: VIII
Time: 03 hrs.
Max. Marks: 100

Instructions: Attempt each question with suitable representation of concepts.

Section A

S. No.		Marks	CO
Q 1	_____ 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	2	CO1
Q 2	_____ virtualization abstracts networking hardware and software into a virtual network that can be managed. a. Storage b. Network c. Software d. All of the mentioned	2	CO1
Q 3	Which of the following performance analysis tool lets you save its state for Windows? a. Nagios b. CloudWatch c. Microsoft Management Console d. All of the mentioned	2	CO1
Q 4	Which of the following is essential concept related to Cloud? a. Reliability b. Productivity c. Abstraction d. All of the mentioned	2	CO2
Q 5	Which of the following cloud concept is related to pooling and sharing of resources? a. Polymorphism b. Abstraction c. Virtualization	2	CO2

	d. All of the mentioned		
Q 6	Most of the cloud architectures are built on this type of architecture. a. Skeleton b. Grid c. Linear d. Template	2	CO2
Q 7	_____ is a code injecting method used for attacking the database of a system / website. a. HTML injection b. SQL injection c. Malicious code injection d. XML injection	2	CO3
Q 8	_____ helps in identifying the origin of information and authentic user. a. Confidentiality b. Integrity c. Authenticity d. Availability	2	CO3
Q 9	_____ technology is used for analyzing and monitoring traffic in network and information flow. a. Cloud access security brokers (CASBs) b. Managed detection and response (MDR) c. Network Security Firewall d. Network traffic analysis (NTA)	2	CO3
Q 10	Which method of hacking will record all your keystrokes? a. Keyhijacking b. Keyjacking c. Keylogging d. Keyboard monitoring	2	CO3
Q 11	Which of the following is the most important area of concern in cloud computing? a. Storage b. Security c. Scalability d. All of the mentioned	2	CO3
Q 12	Which of the following component is called hypervisor? a. VGM b. VMs	2	CO3

	<ul style="list-style-type: none"> c. VMM d. All of the mentioned 		
Q 13	<p>Which of the following is a third-party VPN based on Google's GoogleTalk?</p> <ul style="list-style-type: none"> a. Hotspot VPN b. Gbridge c. Shield d. All of the mentioned 	2	CO3
Q 14	<p>A group of users within a particular instance is called _____.</p> <ul style="list-style-type: none"> a. Suser b. Pod c. Superuser d. All of the mentioned 	2	CO3
Q 15	<p>SaaS supports multiple users and provides a shared data model through _____ model.</p> <ul style="list-style-type: none"> a. Single-tenancy b. Multi-tenancy c. Multiple instances d. All of the mentioned 	2	CO4
Q 16	<p>Which of the following type of virtualization is also characteristic of cloud computing?</p> <ul style="list-style-type: none"> a. Storage b. Application c. CPU d. All of the mentioned 	2	CO4
Q 17	<p>What does L in LAMP stands for?</p> <ul style="list-style-type: none"> a. LAMP b. LONE c. Linux d. None of the mentioned 	2	CO4
Q 18	<p>A _____ cloud combines multiple clouds where those clouds retain their unique identities but are bound together as a unit.</p> <ul style="list-style-type: none"> a. Public b. Private c. Community d. Hybrid 	2	CO4
Q 19	<p>Which of the following provides development frameworks and control structures?</p> <ul style="list-style-type: none"> a. IaaS b. PaaS c. SaaS d. All of the mentioned 	2	CO4

Q 20	An operating system running on a Type _____ VM is full virtualization. a. 1 b. 2 c. 3 d. All of the mentioned	2	CO4
Q 21	Which of the following is owned by an organization for selling cloud services? a. Public b. Private c. Hybrid d. Community	2	CO4
Q 22	The technology used to distribute service requests to resources is referred to as _____ a. Load performing b. Load scheduling c. Load balancing d. All of the mentioned	2	CO4
Q 23	What is the core orchestration component with OpenStack? a. Keystone b. Heat c. Manila d. Ironic	2	CO5
Q 24	What are the Storage Locations For Vm Images In Openstack? a. Filesystem b. S3 c. GridFS d. All of the mentioned	2	CO5
Q 25	Swift is OpenStack's object storage system, while Cinder deals with block storage. a. True b. False	2	CO5
Q 26	Which OpenStack component provides identity services? a. Trove	2	CO5

	<ul style="list-style-type: none"> b. Ceilometer c. Dragonflow d. Keystone 		
Q 27	<p>What is the primary OpenStack component you use to deploy containers?</p> <ul style="list-style-type: none"> a. Keystone b. Karbor c. Kolla d. Kuryr 	2	CO5
Q 28	<p>Which OpenStack component provides database as a service?</p> <ul style="list-style-type: none"> a. Trove b. Manila c. Storlets d. Kuryr 	2	CO5
Q 29	<p>The type(s) of hypervisor that OpenStack supports?</p> <ul style="list-style-type: none"> a. KVM b. Xen c. Containers d. All of the mentioned 	2	CO5
Q 30	<p>What hardware is used in OpenStack for networking?</p> <ul style="list-style-type: none"> a. Ports b. Routers c. Vendor Plugins d. All of the mentioned 	2	CO5
SECTION B			
Q 31	<p>Describe how cloud computing provides scalability and fault tolerance. Justify your answer with suitable example of each.</p>	10	CO2
Q 32	<p>Demonstrate the various identity and access management (IAM) practices followed for authentication, authorization, and auditing of the users accessing cloud services?</p>	10	CO3

Q 33	<p>Suggest five steps to reduce the security breaches in cloud computing. Also summarize how cloud security is different from other IT infrastructure hosted within an organization.</p> <p style="text-align: center;">OR</p> <p>Describe the differences that separate out the cloud architecture from the traditional architecture. Also discuss in detail the business benefits involved in cloud architecture.</p>	10	CO4
Q 34	<p>Elaborate the OpenStack Python SDK. Outline the key components of OpenStack.</p> <p style="text-align: center;">OR</p> <p>Summarize the networking managers in OpenStack cloud. Also list any five networking options.</p>	10	CO5