

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2020

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	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	2	CO1
Q 2	Cloud computing is also a good option when the cost of infrastructure and management is _____. a) Low b) High c) Moderate d) None of the mentioned	2	CO1
Q 3	_____ refers to the location and management of the cloud's infrastructure. a) Service b) Deployment c) Application d) None of the mentioned	2	CO1
Q 4	_____ provides virtual machines, virtual storage, virtual infrastructure, and other hardware assets. a) IaaS b) SaaS c) PaaS d) All of the mentioned	2	CO2
Q 5	Which of the following is the IaaS service provider? a) EC1 b) EC2	2	CO2

	c) EC10 d) Hybrid		
Q 6	Which of the following is the fundamental unit of virtualized client in an IaaS deployment? a) Workunit b) Workspace c) Workload d) All of the mentioned	2	CO2
Q 7	Compromising a user's session for exploiting the user's data and do malicious activities or misuse user's credentials is called _____. a) Session Hijacking b) Session Fixation c) Cookie stuffing d) Session Spying	2	CO3
Q 8	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	2	CO3
Q 9	Security methods such as private encryption, VLANs and firewalls comes under _____ subject area. a) Accounting Management b) Compliance c) Data Privacy d) All of the mentioned	2	CO3
Q 10	Which of the following resource(s) represents the bottleneck in the current system that limits the system's performance? a) ROM b) Resource ceiling c) Resource Parameters d) All of the mentioned	2	CO3
Q 11	Which of the following is done by Identity management? a) Controlling access to data in the cloud b) Maintaining user roles c) Preventing unauthorized uses d) All of the mentioned	2	CO3
Q 12	_____ means the protection of data from modification by unknown users. a) Confidentiality b) Integrity	2	CO3

	<ul style="list-style-type: none"> c) Authentication d) Non-repudiation 		
Q 13	<p>Cryptanalysis is used _____</p> <ul style="list-style-type: none"> a) to find some insecurity in a cryptographic scheme b) to increase the speed c) to encrypt the data d) to make new ciphers 	2	CO3
Q 14	<p>_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.</p> <ul style="list-style-type: none"> a) Network Security b) Database Security c) Information Security d) Physical Security 	2	CO4
Q 15	<p>The technology used to distribute service requests to resources is referred to as _____.</p> <ul style="list-style-type: none"> a) Load analysis b) Load scheduling c) Load balancing d) All of the mentioned 	2	CO4
Q 16	<p>The _____ cloud infrastructure is operated for the exclusive use of an organization.</p> <ul style="list-style-type: none"> a) Public b) Private c) Hybrid d) Community 	2	CO4
Q 17	<p>Applications such as a Web server or database server that can run on a virtual machine image are referred to as _____</p> <ul style="list-style-type: none"> a) Virtual Server b) Virtual Appliances c) Machine Imaging d) All of the mentioned 	2	CO4
Q 18	<p>Which of the following is a virtual machine technology now owned by Oracle that can run various operating systems?</p> <ul style="list-style-type: none"> a) Vmachines b) VirtualBox c) VBox d) None of the mentioned 	2	CO4
Q 19	<p>Which of the following is based on the IETF Session Initiation Protocol?</p> <ul style="list-style-type: none"> a) WSDL b) SIMPLE 	2	CO4

	<ul style="list-style-type: none"> c) SOAP d) All of the mentioned 		
Q 20	<p>Which of the following is Type 1 Hypervisor?</p> <ul style="list-style-type: none"> a) Wind River Simics b) Virtual Server 2005 R2 c) KVM d) LynxSecure 	2	CO4
Q 21	<p>Which of the following model type is not trusted in terms of security?</p> <ul style="list-style-type: none"> a) Public b) Private c) Hybrid d) None of the mentioned 	2	CO4
Q 22	<p>Which of the following will be the host operating system for Windows Server?</p> <ul style="list-style-type: none"> a) VirtualLogix VLX b) Microsoft Hyper-V c) Xen d) All of the mentioned 	2	CO4
Q 23	<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 24	<p>How would you add the user apressuser with a Member role to the apress project?</p> <ul style="list-style-type: none"> a) <code>openstack role add --project apress --user apressuser _member_</code> b) <code>openstack role add --project apress --user apressuser member</code> c) <code>openstack role add --project apress --user _member_ apressuser</code> d) <code>openstack role add --project apress --user member apressuser</code> 	2	CO5
Q 25	<p>Which three OpenStack components does Nova need to function?</p> <ul style="list-style-type: none"> a) Neutron, Horizon and Glance b) Glance, Keystone and Horizon c) Keystone, Glance and Neutron d) Cinder, Swift and Kolla 	2	CO5
Q 26	<p>Which component serves as a dashboard for users to manage OpenStack compute, storage and networking services?</p> <ul style="list-style-type: none"> a) Designate b) Horizon c) Glance d) Searchlight 	2	CO5
Q 27	<p>Which OpenStack component provides identity services?</p>	2	CO5

	<ul style="list-style-type: none"> a) Trove b) Ceilometer c) Dragonflow d) Keystone 		
Q 28	<p>What kind of service does Glance provide?</p> <ul style="list-style-type: none"> a) Network monitoring b) Image management c) Disaster recovery d) Container orchestration 	2	CO5
Q 29	<p>What core function does Neutron perform?</p> <ul style="list-style-type: none"> a) Networking b) Compute c) Storage d) All of the above 	2	CO5
Q 30	<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
SECTION B			
Q 31	<p>Suppose a company A decides to setup a cloud to deliver Software-as-a-Service to its clients from a remote location. Answer the following.</p> <ul style="list-style-type: none"> a) Analyse the security risks that a customer should to be careful about. b) Discuss the kind of infrastructural setup that will be required to set up a cloud. c) Interpret the kind of billing model, used by the cloud service provider for payment purpose. 	10	CO2
Q 32	<p>Does cloud computing offer new opportunities for users and developers? Justify your answer in detail.</p>	10	CO3
Q 33	<p>Illustrate different types of hypervisors with suitable examples. Also enlist the advantages of each.</p> <p style="text-align: center;">OR</p> <p>Discuss the essential prerequisites before using a cloud computing platform.</p>	10	CO4
Q 34	<p>Define Identity Service in OpenStack. Differentiate between ‘user’, ‘role’, and ‘tenant’.</p> <p style="text-align: center;">OR</p>	10	CO5

	Describe bare-metal node and its components. How to remove a network interface from the bare-metal node?		
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