

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, July 2020

Course: B.Tech CSE CCVT
Program: Cloud Deployment Models
Course Code: CSVT 3001

Semester: IV
Time 02 hrs.
Max. Marks: 100

Question Range	Q1 – Q12	Q13 – Q24	Q25 – Q36	Q37 – Q48	Q49 – Q60
CO	CO1	CO2	CO3	CO4	CO5

Q1: Which one of the following is a characteristic of Cloud Services?

- a. **Option to subscribe or unsubscribe services**
- b. Single point of failure
- c. Non-elastic
- d. None of the mentioned

Q2: Which one of the following is a Cloud Deployment Model?

- a. IaaS
- b. **Private Cloud**
- c. PaaS
- d. All of the mentioned

Q3: Which one of the following is the reason for selecting a Private Cloud?

- a. **Improved Security**
- b. High Maintenance
- c. Reduced Scalability
- d. None of the mentioned

Q4: Define OpenStack

- a. Cloud Computing tool
- b. Cloud Management Architecture
- c. Cloud Architecture Design
- d. **Open-source Cloud Software Platform**

Q5: Which one of the following is not a characteristic of Cloud?

- a. Resource Pooling
- b. Measured Service
- c. **High provisioning time**
- d. None of the mentioned

Q6: Which of the following has the lowest level of abstraction?

- a. PaaS
- b. SaaS
- c. **IaaS**
- d. Public Cloud

Q7: State the number of steps required in building a Private Cloud?

- a. 14
- b. **11**
- c. 7
- d. 12

Q8: Which one of the following is an advantage of OpenStack?

- a. **Devoid of vendor lock-in**
- b. Complex regulatory compliance
- c. Proprietary
- d. All of the mentioned

Q9: Select the reason when not to use IaaS?

- a. When there is pressure on the organization
- b. **Strict Regulatory compliance**
- c. For new organizations without the capital to invest in hardware
- d. None of the mentioned

Q10: 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

Q11: Select the reason for choosing an IaaS

- a. When demand is volatile
- b. For specific line of business, trial
- c. **Both a & b**
- d. None of the mentioned

Q12: Select the example for PaaS \

- a. **Sales force.com**
- b. EBS
- c. S3
- d. Both a & b

Q13: State the name of OpenStack Dashboard

- a. Nova
- b. **Horizon**
- c. Neutron
- d. Glance

Q14: Which one of the following is a mandatory OpenStack Project?

- a. Cinder
- b. Swift
- c. **Nova**
- d. All of the mentioned

Q15: Which of the following is a feature of Nova?

- a. Provisions storage resources
- b. Provisions network resources
- c. Provisions storage backup
- d. **None of the mentioned**

Q16: Which one of the following is not a component of Nova Architecture?

- a. Placement
- b. Conductor
- c. **Volume**
- d. API

Q17: Nova supports which one of the following

- a. Storage Resources
- b. **Creating Virtual Machines**
- c. All of the mentioned
- d. None of the mentioned

Q18: Which one of the following is used for internal communication in Nova?

- a. **RPC Messaging**
- b. REST API
- c. All of the mentioned
- d. None of the mentioned

Q19: Which of the following is the OpenStack Block Storage Service?

- a. Nova
- b. Glance
- c. Cinder
- d. Swift

Q20: Which of the following does not correspond to Cinder?

- a. Accessed through REST API
- b. Add persistent storage to a VM
- c. All of the mentioned
- d. None of the mentioned

Q21: Which one of the following defines a Volume Group?

- a. Holds a File System
- b. Corresponds to disks
- c. Corresponds to partitions
- d. Named collection of physical and logical volumes

Q22: Which one of the following is the role of the neutron service?

- a. Enables the end-user to define, utilize, and consume networking resources
- b. Enables the end-user to define compute resources
- c. Enables the end-user to define storage resources
- d. None of the mentioned

Q23: Which of the following is the role of the Neutron Server?

- a. Runs on each compute node
- b. Provides NAT forwarding
- c. Passes tenant requests to a suite of plug-ins for additional processing
- d. Responsible for maintaining DHCP configuration

Q24: What is the role of a Guest Network?

- a. Used for internal communication between OpenStack Components
- b. Used to provide VMs with Internet access in some deployment scenarios
- c. Used for VM data communication within the cloud deployment
- d. Exposes all OpenStack APIs, including the OpenStack Networking API, to tenants

Q25: Which of the following statement is true with respect to Neutron Service

- a. Supports VM Migration
- b. Supports Load Balancing
- c. Supports VM Creation
- d. None of the mentioned

Q26: Which of the following is the role of the DHCP agent?

- a. Provides additional networking services to tenant networks
- b. **Responsible for maintaining DHCP configuration**
- c. Manages local virtual switch (vswitch) configuration
- d. None of the mentioned

Q27: Which of the following describes "Sahara" in OpenStack

- a. **Aims to provide users with a simple means to provision data processing frameworks**
- b. Object storage service
- c. Image storage service
- d. None of the mentioned

Q28: Which of the following is true for "Heat" service in OpenStack?

- a. Designed to support billing systems for OpenStack cloud resources
- b. Provide users with simple means to provision Hadoop clusters
- c. **Provides a template-based orchestration for describing a cloud application**
- d. None of the mentioned

Q29: Describe "Ironic" service in OpenStack

- a. Object storage service
- b. Compute service
- c. Orchestration service
- d. **Bare metal provisioning service**

Q30: State the number of Heat architecture components

- a. 3
- b. 5
- c. 6
- d. **4**

Q31: State the reasons for Bare Metal Provisioning

- a. Single-tenant, dedicated hardware for performance
- b. Database hosting
- c. All of the mentioned
- d. **None of the mentioned**

Q32: Which one of the following is not an OpenStack Advance Service

- a. **Horizon**
- b. Heat
- c. Sahara
- d. All of the mentioned

Q33: With reference to Telemetry Service what does "Delta" stand for?

- a. **Changing over time (bandwidth)**
- b. Increasing over time (instance hours)
- c. All of the mentioned
- d. None of the mentioned

Q34: Which of the following data processing frameworks is supported by Sahara?

- a. Apache Hadoop
- b. Apache Spark
- c. Apache Storm
- d. **All of the mentioned**

Q35: Which of the following is not a Heat architecture component?

- a. heat-api
- b. **heat-core**
- c. heat-engine
- d. None of the mentioned

Q36: What is the role of openstack-swift-account?

- a. Store and delete objects
- b. **Responsible for listing containers**
- c. Provides Authentication
- d. Handles listing of objects

Q37: Which of the following supports token-based authentication?

- a. Swift
- b. **Keystone**
- c. Nova
- d. Cinder

Q38: Define an Endpoint

- a. An entity that uses the OpenStack cloud services
- b. A grouping of resources
- c. **Where to access the associated service**
- d. Administrative boundaries of the system

Q39: Which of the following describes a Hybrid Cloud?

- a. Provides transparent user access to resources
- b. Can dynamically scale to manage varied workloads
- c. **All of the mentioned**
- d. None of the mentioned

Q40: Which of the following is a challenge for Hybrid Cloud implementation?

- a. The organization has the responsibility for the integration, security, manageability, and governance of the composite environment
- b. Admin creates interfaces and automation scripts for seamless integration
- c. Does not need good interfaces between the clouds
- d. All of the mentioned

Q41: Define the role of SDN Controller

- a. Provides forwarding and data processing capabilities
- b. Can build an abstracted view of the network
- c. Extracts information about the network from the hardware devices
- d. All of the mentioned

Q42: Which of the following describes an SDN

- a. The goal of SDN is to improve network control
- b. SDNs enable network changes to be made through the hardware
- c. The networks are not programmable
- d. None of the mentioned

Q43: State the number of architectural components in SDN

- a. 5
- b. 3
- c. 4
- d. 6

Q44: Which of the following statements is true with respect to Hybrid Cloud?

- a. Helps in meeting base workload requirements with the highest degree of reliability
- b. Admin need not create interfaces and automation scripts for seamless integration
- c. Data management is not important
- d. All of the mentioned

Q45: Which of the following describes Automated Service Management?

- a. Maximize resource utilization
- b. Reduce hardware cost
- c. Reduce management complexity
- d. All of the mentioned

Q46: Which of the following statements are true with respect to Hybrid Cloud?

- a. Organizations that use some public and some private cloud
- b. Cloud services from different environments have to be used together to create value
- c. All of the mentioned
- d. None of the mentioned

Q47: Which of the following is true for SDN

- a. SDN require a huge investment
- b. **SDN can create very intelligent and globally connected environments**
- c. Difficult to create fluid automation for data center traffic flow
- d. All of the mentioned

Q48: Which of the following is a characteristic of Containers?

- a. **Multi-Cloud Platform**
- b. Non-Portable
- c. Does not share the same OS
- d. All of the mentioned

Q49: What does the feature of "Controllable" mean with respect to CI/CD?

- a. **Containers provide one-click commissioning and decommissioning of the environment**
- b. Zero downtime
- c. Automatically build, package, and deploy applications
- d. None of the mentioned

Q50: State the number of EC2 pricing options

- a. 3
- b. 5
- c. **4**
- d. 6

Q51: State the full form of VPC

- a. Virtual Public Cloud
- b. **Virtual Private Cloud**
- c. Virtual Private Computing
- d. None of the mentioned

Q52: State the role of the vCloud Connector

- a. **Extend the logical boundaries of the virtual datacenter with Datacenter Extension**
- b. Deploy virtual infrastructure with confidence
- c. All of the mentioned
- d. None of the mentioned

Q53: State the functionality of the vCloud Director

- a. Manage third-party virtualization hosts
- b. Manage a single content catalog
- c. **Fast provisioning and thin provisioning**
- d. All of the mentioned

Q54: Which of the following pricing models comprise of the vFabric Application Director?

- a. vCloud Suite Enterprise
- b. vCloud Suite Standard
- c. vCloud Suite Advanced
- d. All of the mentioned

Q55: Define "Cookbook" with respect to Chef

- a. Command-line tool
- b. **Defines a scenario, such as everything needed to install and configure MySQL**
- c. Used to install, configure software and deploy applications
- d. None of the mentioned

Q56: List the types of Chef Servers

- a. 2
- b. **3**
- c. 4
- d. None of the mentioned

Q57: Which of the following is an advantage of Chef?

- a. Requires knowledge of Ruby
- b. Only good fit for AWS
- c. **Manages cloud as well as data center**
- d. All of the mentioned

Q58: State the use of Application Load Balancer in AWS

- a. **Load balancing of HTTP traffic**
- b. Load balancing across multiple EC2 instances
- c. All of the mentioned
- d. None of the mentioned

Q59: Define Chef-Repo

- a. Command-line tool
- b. Configure software and deploy applications
- c. A computer that is configured to run Knife
- d. **Located on the workstation and contains cookbooks**

Q60: State the full form of EC2

- a. **Elastic Compute Cloud**
- b. Elastic Cloud Computing
- c. Elastic Computing Cloud
- d. None of the mentioned