Name:

Enrolment No:



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

Enu Semester Examination

Course: Cloud Deployment Model Programme: B Tech CCVT Semester: VI

Code: CSVT3002 & CSIB378

Time: 02 hrs

Max. Marks: 60

NOTE: Exam conducted on Blackboard. The following is the extract of format and questions.

Random Block – CO1 – Total Question 13 – Display any 4 – Marks for each Question 1

TF WantQuickBuck.com is a money-rotation consulting app start-up who wants to put all their infrastructure in cloud so that they can start getting return on their investments quickly. They are going in right direction. TRUE FALSE

MC Alchemist.com wants to keep its AI based Elixir Algorithm to suggest life extending solutions based on life style data. You are their cloud implementation expert. Which cloud implementation you will suggest for their solution hosting?

Private CloudCorrect Public CloudIncorrectSaaSIncorrectCommunity CloudIncorrectMCAs a Chief Consultant of CloudWizards consulting, your customer CarefulInvesting.com – startup with

moderate upfront investment – wants to know all factors that will impact their operations cost. They have included all hardware, software and network cost including AMC for it. They want you to validate and confirm if everything is covered. Your answer is:

Well, you have covered almost everything. No major cost is missing. Incorrect

I guess, but for costing for staff to run the services, you have covered everything. Incorrect

Looks like you have missed multiple major cost items like facilities and business continuity, and such. Correct

TF EnigmaEncryption.com needs 17 different test setup before a new crypt can be made available to its customers. In order to save test setup time they want to move their cloud based testing to their in-house data center on dedicated servers so that they can speed up the testing. This is a correct decision. FALSE TRUE

TF KeepYouKicking Medical Services from New York is evaluating BigDeeBee.Com's premium Oracle Grid Service. They will be interested in using this service as it gives very sophisticated connectivity protocol for connecting into their network as it is considered nearly 90% secure FALSE TRUE

MC LalaKiDukan is small grocery shop that went .com with online app to cater for delivery to local community. Due to good pricing and fast delivery services their online business has grown four times in last 2 years! While Lala invested substantial amount is its IT infrastructure now it is facing order fallout and response time issues due to server performance. A local IT services vendor GarageIT is selling the idea moving the setup to private cloud using services from GarageIT so that LalaKiDukan will be able to maximize it IT infra and partly address performance issues. Do you think LalaKiDukan.com should move to private cloud setup? Yes Correct No Incorrect

MC LalaKiDukan is small grocery shop that went .com with online app to cater for delivery to local community. It is able to run its business with local servers setup and filing taxes and other statutory/governmental requirements properly for last 2 years. A local IT services vendor GarageIT is selling the idea moving the setup to private cloud using services from GarageIT so that LalaKiDukan will have no problems with tax filing and sales tax reporting. Do you think LalaKiDukan.com should move to private cloud setup? No Correct Yes Incorrect

TF Large companies are moving their infrastructure from Public Cloud to Private Cloud due to DevOps practices TRUE FALSE

MC Mama-Ki-Dukan is small, successful and cash-rich grocery shop competing with LalaKiDukan.com, however, Mama has NO online presence. Mama decides to go online and consults GarageIT, a local IT service provider.
 GarageIT analyzes the requirements and finds out cost of setting up a in house solution is LESS than setting up Mama's business on public cloud and running it for 3 years. Mamaji calls you and asks your opinion if he should move to public cloud or private cloud? In the given scenario, what will you recommend? Private Cloud Correct Public Cloud Incorrect Hybrid Cloud Incorrect Community Cloud Incorrect

TF Mr Smith is using Web Hosting Services for his customer's advertisments from Door Inc, a very good service provider. Mr Smith will have to ask his IT team to monitor all the hard disk alerts coming from the web servers given by Door Inc. FALSE TRUE

TF Once you have setup the network, hardware and software and established security measures you are good to start operations of your private cloud.FALSE TRUE
TF State True or False: DarkKnights.com do not want to build their services on cloud but put on in-house data
center because their services are used mostly during night and they believe they will be able to save money as night time
cloud services rentals will be higher. FALSE TRUE
TF The first and most important thing in building a private cloud is to identify the hardware, software and network
infrastructure that is required to setup the private cloud. FALSE TRUE
Random Block – CO2 – Total Question 17 – Display any 6 – Marks for each Question 1
MC As a Chief Consultant of CloudWizards consulting, your customer WillMakeMoneySomeday.com – startup with
no outside funding and little upfront investment – wants to know – Which cloud model they should adopt? Your answer
is: Gentlemen, private cloud is best for you.Incorrect Ma'am and Sir, please go for public cloud
Correct My friend, Hybrid cloud is the safest bet. Incorrect
TF BholeNath.com – a private detective company App – is moving to Cloud based platform. They believe all their
client information security problems will be solved. FALSE TRUE
TF BigDeeBee.Com is offering Bigdata-In-Hadoop-On-Cloud Services that requires the end users from its
customer organization to log in using BigDeeBee.Com's two-factor authentication for security reasons. Ms Marple of
Fumbling Detective Services, who is evaluating this service will find this perfect for its detective staff. FALSE TRUE
MA ChhotaMota International Group has multiple companies in all sizes having wide variety of information
extraction needs in all formats. They find Microsoft's Azure solution very useful because They can host different types
of Databases on different DB solutions Correct They can store and analyze data using right size and type solutions
Correct They can use various media services Correct Microsoft is the largets software vendor on earth
Incorrect They have good experience with Microsoft Windows Incorrect
TF DontDie.com – is an emergency life support services app. It wants to move its application infrastructure to an
Andaman based cloud service provider with solo data center in Port Blair in order to make sure their app is always
available to its users with no down time. This is off course a safe and sure move. FALSE TRUE
TF A company is using a SaaS application from a public vendor, the sensetive data about competition is stored in its
internal data center. Q: Does the Organization have hybrid environment in the scenarios ? TRUE FALSE
MC A private cloud that is extending its boundary into a third party cloud environment to obtain additional (or non-
mission critical) resources in a secure and on-demand manner. This is a property of: Hybrid Cloud Correct Public
Cloud Incorrect PaaS Incorrect SaaS Incorrect
TF Data Management in Hybrid Cloud is easier than that in Private Cloud. FALSE TRUE
TF Hybrid Cloud helps in making best out of already made investment in existing infrastructure. TRUE FALSE
TF Hybrid Cloud makes application design simple and easy to implement. FALSE TRUE
TF Integration of existing system, such as user management, security and governance introduces additional complexity in Hybrid Cloud implementation. TRUE FALSE
TF Jagannath Rulduram and Sons quickly wants to offer online services for his departmental store to its customers
so that they can quickly stop losing customers to Amazon.com and Flipkart. They are deciding to build their own app
using UPES students start up BobTheBuilder.Com as against using ReadyToSell.Com's retail public cloud based
platform because UPES students are very smart. It is a very good decision. FALSE TRUE
TF Kaa.Com is not able to migrate to Microsoft's Azure as all their in-house build and test platforms are on Linux,
as they don't want to move their platforms to Windows. FALSE TRUE
MC PrudentBank is convinced that your start-up will be profitable and has agreed to invest \$10 million but agreed to
give in first year 30% second year 25% and 15% each next three year. With all the money in hand where will you put
your app on: Private Cloud Incorrect Hybrid Cloud Incorrect Community Cloud Incorrect
Public Cloud Correct
TF Ramanbhai Toastwala wants to use RedyToSell.Com's retail public cloud based platform for their backery
products. They want to negotiate monthly rentals against per-transaction charges as they are not expecting very high
sales during initial perios. This is very economic and wise approach. FALSE TRUE
TF RichieRich.com CTO Mr Wise invested hundred million dollars in setting up best in class tier 1 data center for
their diamond-platinum jeweler business. Within one year they opened up multiple branches. The consultant Mr Brilliant
tells Mr Wise to move their applications from dedicated servers to virtualized machines in order to support growth and
therefore move to AWS based services. It is the only good option. FALSE TRUE
TF Underworld.com is dealing in buying and selling rare goods from East Europe, Middle East, South East Asia,
China and South America from a single platform that is based on cloud. They believe this will solve all their taxation
and import-export regulation related difficulties. It is indeed a wise decision. FALSE TRUE
Random Block – CO3 – Total Question 33 – Display any 16 – Marks for each Question 1

TF The integrated tool to create, configure and control most of the services in OpenStack is Horizon TRUE FALSE	
MC The sequence of operations in RPC is GET -> PUT -> PATCH -> POST -> DELETE Incorrect Call -	-
 Pack -> Send -> Receive -> Unpack -> Call -> Return -> Pack -> Send -> Receive -> Unpack -> Return Correct TF All internal Nova components use HTTP based messaging service. False TRUE FALSE 	
TF In order to compute service work seamlessly and effectively it is essential that Nova is setup with one and only	
one hypervisor, preferably KVM. FALSE TRUE	
TF Cinder by default uses LVM for back-end-storage service TRUE FALSE	
TF Cinder is block storage service that can provision shareable block storage across multiple VMs created using compute. FALSE Ture	
MC Cinder is not a mandatory service because, tick the right answer: Cinder is object storage service and you can	
setup cloud without object storageIncorrectCinder is a mandatory service and not an optional serviceIncorrectCinder gives block storage and compute can use other block storage servicesCorrect	
TF Cinder provides components to increase service reliability like HA and Backup. TRUE FALSE	
TF Cinder supports Advanced Message Queuing Protocol for all external communication outside Cinder and within	n
Cinder components it uses RESTful APIs FALSE TRUE	
TF Amazon EBS is similar to OpenStack Swift Service FALSE TRUE	
TF You can also use Object Storage for Virtual Machine Images and Backup Images TRUE FALSE	
MC Access management services in OpenStack is given by: Nova Incorrect Glance Incorrect Keystone Correct Horizon Incorrect	
TF Identity Service - Keystone, and, Dashboard Service - Horizon are two shared services across OpenStack services TRUE FALSE	
MC In OpenStack the Identity and User Access service is provided by IAM Incorrect UAM	
Incorrect Keystone Correct Ironic Incorrect	
TF In order to optimize its performance Cinder makes it mandatory to support a single vendor storage system. FALSE TRUE	
TF Manila provides Object Storage Service in OpenStack FALSE TRUE	
 MA Ms Marple's Fumbling Detective Services is wanting to use BigDeeBee.Com's Bigdata-In-Hadoop-On-Cloud Services for its Case Investigation Data store for all unstructured data. Ms Marple will be considering the following aspects of BigDeeBee.Com's Services: BigDeeBee.Com gives facility to expand storage capacity on fly Correct Granularity of charging for storage is NOT important Incorrect BigDeeBee.com has a toll free support that works on Monday to Thursday from 12 Noon to 3PM Incorrect BigDeeBee.Com gives facility to download data into multiple Bigdata format Correct TF Nova component Scheduler is responsible for interfacing with hypervisor and creating the VMs. FALSE TRUE 	у
MCNova interacts with external services to complete its function. Which of the following service in NOT involed in this process? Keystone Incorrect Neutron Incorrect Placement Incorrect Swift Correct Glance Incorrect	
TF Nova interfaces with all external services using RPC based communication service. FALSE TRUE	
MCNova requires swift service as mandatory service, because:Swift provides OS images to NovaIncorrectSwift provides basic storage required to install host OS for VMIncorrectSwift in NOT	
a mandatory service Correct	
TF Nova uses REST API for internal communication between Conductor, Schedule, API etc FALSE TRUE	_
TF Nova uses RPC for interaction with Keystone, Glance and other external OpenStack services. FALSE TRUE	E
TF OpenStack Cinder is equivalent to Amazon S3 Service FALSE TRUE	
TF OpenStack enables creation of virtual IT resources via a GUI and there is no other alternate way to use the OpenStack services. FALSE TRUE	
TF OpenStack Nova can create VMs only using KVM Hypervisor FALSE TRUE	
TF OpenStack provides all the services that are required for implementation of IaaS, PaaS and SaaS FALSE TRUE	E
TF OpenStack provides all the services that are required for implementation of IaaS, PaaS and SaaS FALSE TRUE MC OpenStack services can be used via: Dashboard Incorrect API Incorrect CLI Interface Incorrect All of the aboveCorrect Incorrect API Incorrect CLI Interface	

TF	Using Object Storage you can manage complex file systems with multiple data types FALSE TRUE
MC	Which of the following component does NOT belong to a compute node in OpenStack implementation? KVM
Hyper	visor Incorrect Compute Service Incorrect Telemetry Agent Incorrect
	Network Management Correct
MC	Which of the following is/are not mandatory projects in OpenStack Horizon Incorrect
MC	Cinder Incorrect Ironic Incorrect All of the above Correct Which of the following corrigon in NOT related to storage in OpenStack Marile Incorrect Clange
MC	Which of the following services in NOT related to storage in OpenStack Manila IncorrectGlanceIncorrectSwiftIncorrectDesignateCorrect Cinder Incorrect
	Random Block – CO4 – Total Question 21 – Display any 10 – Marks for each Question 1
TF	Application layer examples in SDN Networks – tick correct one: Traffic Forwarding Incorrect
ΙГ	Configuration of Networking Devices Incorrect Load Balancer Correct
MC	In a typical hardware deployment of OpenStack network node will have how many distinct network interfaces?
_	1 Incorrect 2 Incorrect 3 Correct
TF	In a typical hardware deployment of OpenStack you can have more than one nodes for compute, block storage
	pject storage. TRUE FALSE
TF	In a typical hardware deployment of OpenStack you can have only ONE Controller node. TRUE FALSE
MC	In OpenStack implementation which one of the following does NOT belong to Network Node? neutron-
DHCP	Pagent Incorrect neutorn L3 agent Incorrect neutron server Correct neutron metadata
agent	Incorrect
MC	In Self Service Network deployment option of OpenStack, Controller Node has one additional component and
that is:	: Networking Management Agent Incorrect Networking L3 Agent Correct Networking DHCP Agent Incorrect Networking Metadata Agent Incorrect
MC	SDN Controller interfaces with various north bound functions using: Simple Network Management Protocol
me	Incorrect OSPF/BGP/Routing Protocols Incorrect API Correct
TF	SDN Controller resides in a specialized hardware that is custom designed to control network devices
	FALSE TRUE
TF	SDN helps in achieving greater flexibility in implementing networking in cloud environment however it comes
	ery high cost. FALSE TRUE
TF	SDN offers highly structured architecture as the north bound and south bound interfaces are standardized and
TF	Illed with well documented and approved interfaces by SDN Forum. FALSE TRUE SDN provides centralized management of network that makes it highly venerable to security attacks. TRUE
11	FALSE
TF	SDN while simplifies network management it introduces challenges that makes automation very difficult for
networ	rk operations. False TRUE
TF	Splitting of "Control plane" and "data plane" is called integration in SDN. FALSE TRUE
MC	Which component of Neutron provides IP Address Service? Network Service Provider Incorrect
	L3 Agent Incorrect DHCP Correct L2 Agent Incorrect
MC	Which component of neutron provides Network Address Translation [NAT] service? neutron-DHCP agent
	Incorrect neutorn L3 agent Correct neutron server Incorrect neutron metadata agent
MC	
MC	Which of the following is NOT provided by OpenStack Networking service?IP address managementIncorrectDNSIncorrectDHCPIncorrectLoad balancingIncorrectNone of the
above	e
MC	Which of the following network within OpenStack implementation is used for communication between
	Stack components? Management Network Correct External Network Incorrect Guest
Netwo	ork Incorrect API Network Incorrect
TF	Having High Availability also takes care of Disaster Recovery and Business Continuity. FALSE TRUE
TF TF	
TF	Having High Availability also takes care of Disaster Recovery and Business Continuity.FALSE TRUEIn High Availability setup when primary system fails, secondary server present in same data center takes over processing without loss of serviceTRUE FALSE
TF the pro	Having High Availability also takes care of Disaster Recovery and Business Continuity.FALSE TRUEIn High Availability setup when primary system fails, secondary server present in same data center takes over ocessing without loss of serviceTRUE FALSEIt is also possible to put alternate site within same building complex and achieve Disaster RecoveryTrue
TF the pro TF FALS	Having High Availability also takes care of Disaster Recovery and Business Continuity. FALSE TRUE In High Availability setup when primary system fails, secondary server present in same data center takes over Decessing without loss of service TRUE FALSE It is also possible to put alternate site within same building complex and achieve Disaster Recovery E TRUE
TF the pro TF FALSI TF	Having High Availability also takes care of Disaster Recovery and Business Continuity. FALSE TRUE In High Availability setup when primary system fails, secondary server present in same data center takes over occessing without loss of service TRUE FALSE It is also possible to put alternate site within same building complex and achieve Disaster Recovery E TRUE It is enough to build alternate site in a different geographical location with server, storage and connectivity to
TF the pro TF FALSI TF	Having High Availability also takes care of Disaster Recovery and Business Continuity. FALSE TRUE In High Availability setup when primary system fails, secondary server present in same data center takes over occessing without loss of service TRUE FALSE It is also possible to put alternate site within same building complex and achieve Disaster Recovery E TRUE It is enough to build alternate site in a different geographical location with server, storage and connectivity to re Disaster Recovery FALSE TRUE
TF the pro TF FALSI TF achiev	Having High Availability also takes care of Disaster Recovery and Business Continuity. FALSE TRUE In High Availability setup when primary system fails, secondary server present in same data center takes over occessing without loss of service TRUE FALSE It is also possible to put alternate site within same building complex and achieve Disaster Recovery E TRUE It is enough to build alternate site in a different geographical location with server, storage and connectivity to ve Disaster Recovery FALSE TRUE Random Block – CO4 – Total Question 18 – Display any 8 – Marks for each Question 1
TF the pro TF FALSI TF	Having High Availability also takes care of Disaster Recovery and Business Continuity. FALSE TRUE In High Availability setup when primary system fails, secondary server present in same data center takes over occessing without loss of service TRUE FALSE It is also possible to put alternate site within same building complex and achieve Disaster Recovery E TRUE It is enough to build alternate site in a different geographical location with server, storage and connectivity to re Disaster Recovery FALSE TRUE

TF	Bare metal provisioning service Ironic does not depend upon any vendor specific management protocol. FALSE TRUE
TF	Heat Orchestration service lacks automation capability therefore each orchestration requires manual setup. FALSE TRUE
MC	In order to get name resolution done in openstack cloud setup you will need to setup which service?SwiftIncorrectTroveIncorrectDesignateCorrect
MC	You need all the usage statistics in order to do costing of service usage by your customers. You will need to
impler	nent and configure which service?Ironic Incorrect Ceilometer Correct Sahara Incorrect Horizon Incorrect
MC	Which of the following service provides Container-as-a-Service in OpenStackMagnumCorrect IronicIncorrectTroveIncorrectSahara Incorrect
MC	Which of the following service provides Data Processing-as-a-Service in OpenStackMagnumIncorrectIronic IncorrectTrove IncorrectSahara Correct
MC	Which of the following service provides Database-as-a-Service in OpenStackMagnumIncorrectIronicIncorrectTroveCorrect SaharaIncorrect
MC	Setting up Hudoop clusters are a common usage of cloud environment. Which OpenStack service provides this?Sahara Correct Manila IncorrectTripleOIncorrectTroveTroveIncorrect
TF	Telemetry service covers Compute and Storage metrics but Network related metric is taken care by Neutron FALSE TRUE
TF related	Telemetry service is responsible for measurements for maintenance of cloub BUT does NOT support BILLING doperations FALSE TRUE
MC	The OpenStack Management Service in OpenStack is called:Sahara IncorrectManila IncorrectTripleOCorrect TroveIncorrect
TF	The OpenStack Management Service uses a concept of "undercloud" to create and manage production clouds TRUE FALSE
TF	The production cloud created and managed by OpenStack Management Service is called "Overcloud" TRUE FALSE
MC	Which OpenStack service will you use to implement "Analytics as a Service"?Sahara Correct ManilaIncorrectTroveIncorrect
MC use?	In order to include a physical server in your virtualized cloud environment, which OpenStack service will you Magnum Incorrect Ironic Correct Trove Incorrect Sahara Incorrect
MA	Which of the following can help you in loading OS into a server from a remote network location instead of local
	Tick ALL correct answers. BootP Correct Preboot Execution Environment Correct Intelligent Platform
	gement Interface Incorrect DHCP Incorrect
-	
TF on Op	Provisioning of OpenStack and Management of OpenStack installations can share same network in OpenStack enStack component of OpenStack FALSE TRUE
	Random Block – CO5 – Total Question 32 – Display any 16 – Marks for each Question 1
TF	Containerization can make DevOps very difficult to implement. FALSE TRUE
TF	Containers are much more secure than Virtual Machines. FALSE TRUE
TF in sam	DevOps essentially meanse putting Development and Operation teams into a single team so that they can work the place. FALSE TRUE
MC	A start-up selling automation solution based on Chef needs to have their own local Chef setup. Which Chef
	is suitable for them? Hosted Chef Incorrect Enterprise Chef Correct Open Source Chef Incorrect
MC	YoDood.com is social media start up for young college students that has seen phenomenal growth within first
	f its launch that is hosted on public cloud. The students are demanding multiple features resulting in weekly
	e of new 4-5 small features every week. Techi-Dude at YoDood.com want to introduce a DevOps pipeline in their
	opment and test environment. They call you and ask –"Yo! Nerdy-Dood, what should we do?" Your response is:
	Man, don't change a thing. With time things will fall in place. Incorrect Bhai, setup your DevOps
pipelir	ne on private cloud Correct Bro, I will come and setup everything on public cloud for you. Incorrect
MC	In order to improve on your SLAs for provisioning of new customers and the contracted services, which one
	I you automate first? Security Operations Incorrect Business Service Management Correct
	Resource Optimization Incorrect High Availability Operations Incorrect
MC	In order to improve your MTTR – Mean Time to Respond, MTTF – Mean Time to Fix and FCR – First Call
	ation – for your cloud services, your priority will be to automate? Automated service management Correct
1	Intelligent allocation policies Incorrect Live migration to improve utilization Incorrect Smart
	Interrigent unocation ponetes incorrect Erve inigration to improve aunization incorrect Sinart

Incorrect	lows
MC In order to reduce your service issues due to system failuers – for your cloud services, your priority	
automate? Self-healing triggers dynamically restore services Correct Intelligent allocation polic	
Incorrect Live migration to improve utilization Incorrect Smart power management	policies
Incorrect Automate response actions with custom triggers and workflows Incorrect	
MC One of the most common tool to achieve Continuous Integration and Continuous Deployment is: Je	enkins
Correct GitHub Incorrect PHP Incorrect .NET Incorrect	
TF Power Management function automation can result in savings in operation cost. TRUE FALSE	
TF Security related tasks like information protection, data integrity are out of scope of automation. F.	ALSE TRUE
TF The idea of Microservice is to break complex service into small pieces with well defined interfaces	that can be
developed and deployed by different companies. TRUE FALSE	
TF The ONLY difference between Virtualization and Containerization is introduction of Container Eng	vine
FALSE TRUE	,inc.
	orrect
vFabric Incorrect vCloud Connector Incorrect vSphere C	onect
TFUsing containerization one can achieve maximum utilization of compute resources.TRUE F.	ALCE
TF While moving your legacy data center setup to a cloud environment it will be good to start with auto	omating all
the services. FALSE TRUE	
TF With automation it is possible to achieve high level of SLA compliance. TRUE FALSE	
MC Which of the following in NOT a containerization platfrom? Dockers Incorrect O	penStack
Magnum Incorrect Kubernetes Incorrect GitHub Correct	1
MC Which of the following is NOT an automation tool for Cloud Environment? Salt Incorrect	Chef
Incorrect Puppet Incorrect Ansible Incorrect None of the above Correct	
TF vCloud Connector provides Single-pane-of-glass UI for viewing, migrating and operating on worklo	ads TRUE
FALSE	Juds. TROL
MA Tick the disadvantages of Containers. Tick ALL correct answers Security Concern Correct L	ack of
isolation Correct Inadequate Monitoring Correct Not many features Correct	
TE A package of the application files, dependencies and libraries of an application that can run on an Ω	S
TF A package of the application files, dependencies and libraries of an application that can run on an O independently is called virtualization FALSE TRUE	S
independently is called virtualization FALSE TRUE	
independently is called virtualizationFALSE TRUEMABenefits of containers include? Tick all applicable.PortabilityCorrect Cost efficientCCCC	S
independently is called virtualizationFALSE TRUEMABenefits of containers include? Tick all applicable. Version ControlCorrect SpeedPortabilityCorrect Cost efficient IncorrectCorrect SecurityIncorrectMonitoringIncorrect	orrect
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