

- N. B.: (1) **All** questions are **compulsory**.
 (2) Make **suitable assumptions** wherever necessary and **state the assumptions** made.
 (3) Answers to the **same question** must be **written together**.
 (4) Numbers to the **right** indicate **marks**.
 (5) Draw **neat labelled diagrams** wherever **necessary**.
 (6) Use of **Non-programmable** calculators is **allowed**.

I	Choose the correct alternative and rewrite the entire sentence with the correct alternative.			(30)
1.	Type 1 hypervisors are often referred to as _____			
	a.	coated-metal hypervisors	b.	hypervisors isolation
	c.	bare-metal hypervisors	d.	oriented-metal hypervisors
2.	What is the foundation of the virtualization process?			
	a.	Vmware	b.	VMkernel
	c.	Vmserver	d.	Vmclient
3.	vCenter Server plays a central role in any sizable _____ vSphere implementation			
	a.	Oracle	b.	Vmware
	c.	Microsoft	d.	Google
4.	What provide the foundation for networking settings and third-party virtual switches?			
	a.	vSphere Storage DRS	b.	Enhanced vMotion Compatibility
	c.	vSphere Distributed Switches	d.	Network I/O Control
5.	What define the storage requirements for a VM and its virtual disks?			
	a.	VM storage profiles	b.	Host profiles
	c.	VMware vCenter Server	d.	VM Virtual SAN
6.	NICs should be at least _____ Ethernet			
	a.	bit	b.	kilobit
	c.	megabit	d.	gigabit
7.	To keep ESXi hosts and VMs updated, VUM uses _____			
	a.	Baselines	b.	Maintenance mode
	c.	Host/Cluster Settings	d.	Update mode
8.	VUM _____ can scan the hosts of versions _____ and above for updates to patches and extensions.			
	a.	6.0, 6.7	b.	6.7, 6.0
	c.	5.0, 5.7	d.	4.0, 5.0
9.	A software-based switch that resides in the _____ and provides traffic management for virtual machines			

	a.	VMkernel	b.	physical adapter
	c.	ESXi hosts	d.	virtual adapter
10.	What updates are a fact of life in today's IT departments?			
	a.	firmware and API	b.	Software and hardware
	c.	Software and firmware	d.	Hardware and firmware
11.	The _____ area is also where you would set the proxy configuration			
	a.	Network Configuration	b.	Proxy Settings
	c.	Download Settings	d.	Host/Cluster Settings
12.	Before an ESXi host is patched or upgraded, it is first placed into _____.			
	a.	Initial mode	b.	Maintenance mode
	c.	Baselines	d.	Installation mode
13.	Which statement is true regarding iSCSI adapters?			
	a.	hardware iSCSI adapters require vmkernel networking	b.	Independent Hardware iSCSI adapters offload processing from the ESXi host.
	c.	Dependent Hardware iSCSI adapters do not require vmkernel networking	d.	Independent Hardware iSCSI adapters require vmkernel networking
14.	Which is not the typical requirement for configuring Storage I/O Control			
	a.	The datastore must consist of only one extent.	b.	The datastore is managed by a single vCenter Server.
	c.	Auto-tiered storage must be compatible with SIOC.	d.	Auto-tiered storage must be SSD or SATA.
15.	Why does iSCSI use hardware and software initiators?			
	a.	To initiate connectivity to hardware and software components	b.	To enable storage of data.
	c.	To obtain native support within ESXi	d.	To establish network connectivity.
16.	Which is the most apt about vCenter HA are correct?			
	a.	ESXi 3.0 is required.	b.	vCenter HA network latency between nodes must be less than 50 ms.
	c.	NFS datastore is supported.	d.	It must be deployed on a 3 ESXi host cluster with DRS enabled
17.	Where does Fault Tolerance store the primary and secondary virtual machine files?			
	a.	Only local storage	b.	Only shared storage
	c.	Both shared and local storage	d.	SSD
18.	Which is the typical use case for Fibre Channel Zoning in a vSphere environment?			

	a.	Increases the number of targets presented to an ESXi host	b.	Controls and isolates paths in a fabric
	c.	Controls and isolates paths to an NFS share	d.	Can be used independent environments.
19.	_____ also aids restructure and automate the organization of VM focus.			
	a.	VMX Tools	b.	VMCD Tools
	c.	VMware Tools	d.	ESXi Tools
20.	Which one of the given options is same as normal VMware tools which is packaged differently?			
	a.	Formatting Tools	b.	Setup Tools
	c.	VM Tools	d.	Open VM Tools
21.	_____ clones can run with a single source of virtual machine.			
	a.	128	b.	200
	c.	256	d.	100
22.	The _____ feature provides a template for deploying a new VM.			
	a.	Clone To Template	b.	Cloning
	c.	Copy Template	d.	Create Template
23.	VMware ESXi uses _____ unlike memory-management skills to guarantee the host memory is used as efficiently as possible.			
	a.	3	b.	6
	c.	5	d.	1
24.	Creating a vApp is a _____ step process.			
	a.	2	b.	1
	c.	4	d.	3
25.	What are the alarms ?			
	a.	An alarm is a notification which appears when an event does not occurs.	b.	An alarm is a notification which appears when an event is delayed.
	c.	An alarm is a notification which appears when an event occurs	d.	An alarm is a notification which appears when an event is before time.
26.	Which two users are assigned the Administrator role at the ESX Server level by default?			
	a.	root, administrator	b.	root, vpxuser
	c.	root, vpxa	d.	root, hostd
27.	What happens to the files contained on shared storage When a Content Library is deleted?			
	a.	some data from stored files in content library will be deleted.	b.	all stored files in content library will be as it is.

	c.	all stored files in content library will be deleted.	d.	specific stored files in content library will be deleted.
28.	PowerShell, variables commence with a ___ accompanied through alphanumeric characters			
	a.	\$	b.	%
	c.	#	d.	*
29.	Command to update the product list on Ubuntu Linux is?			
	a.	sudo get update	b.	sudo apt-get update
	c.	sudo apt get update	d.	sudo apt update
30.	PowerShell provides the _____ cmdlet which can provide helpful information about cmdlets or topics within PowerShell.			
	a.	Set-Help	b.	Get-View
	c.	Get-Date	d.	Get-Help

II	Attempt <i>any one</i> of the following:			6
	a)	Write short note on VMware ESXi Architecture. 1. Hypervisor. 2. Components of ESXi. 3. Planning Deployment.		
	b)	What is Single Sign-On (SSO) service offered by Platform Services Controller? 1. Services Offered. 2. Steps for installing.		
	c)	What are the five divided main areas of vSphere Web Client Home Screen? 1. Navigator. 2. Content Area. 3. Alarms and Work In Progress. 4. Recent Tasks. 5. Recent Objects.		
2	Attempt <i>any one</i> of the following:			6
	a)	What are the steps for Upgrading Hosts with vSphere Update Manager? Perform the following steps to upgrade a host server with VUM 6.0: 1. Import an ESXi image and create a host upgrade baseline. 2. Upgrade the host by remediating with the upgrade baseline. 3. Upgrade the VMs' VMware Tools and hardware.		
	b)	What is ESXi Dump Collector? 1. Definition. 2. Services. 3. Configuration.		
	c)	Write short note on vSphere Update Manager (VUM). 1. Definition. 2. Structure. 3. Coordination with other components.		
3	Attempt <i>any one</i> of the following:			6
	a)	List the elements which constructs shared storage array. 1. External Connectivity.		

		<ul style="list-style-type: none"> 2. Storage processor. 3. Array Software. 4. Cache Memory. 5. Disks. 6. Bandwidth. 	
	b)	<p>What is RAID? Explain different levels in it.</p> <ul style="list-style-type: none"> 1. Definition. 2. Purpose. 3. Levels. 	
	c)	<p>Write short note on iSCSI.</p> <ul style="list-style-type: none"> 1. Definition. 2. Structure. 3. Topology. 	
4	Attempt <u>any one</u> of the following:		6
	a)	What are the steps for creating a Virtual Machine?	
	b)	<p>What are the ways in which Optical Disks can be accessed in Virtual Machines?</p> <ul style="list-style-type: none"> 1. Client Device. 2. Host Device. 3. Datastore or Library ISO File 	
	c)	<p>Write short note frozen Virtual Machine.</p> <ul style="list-style-type: none"> 1. Definition. 2. Purpose. 3. Functioning. 	
5	Attempt <u>any one</u> of the following:		6
	a)	<p>Write short note on Alarm.</p> <ul style="list-style-type: none"> 1. Definition. 2. Scope. 3. Creating Alarms. 	
	b)	<p>Explain the following terms:</p> <ul style="list-style-type: none"> a. Cmdlets b. Objects c. Variables d. Pipeline 	
	c)	<p>What is the difference between Allocation and Utilization?</p> <ul style="list-style-type: none"> 1. Definition. 2. Mechanisms. 3. Addressing Situation 	