

CORRECTION OF CLOUD COMPUTING ASSESSMENT II

1. Underline on the correct answer (10 Marks)

a) TRUE / FALSE: A Type-1 (Bare-Metal) hypervisor, such as VMware ESXi, is installed directly onto the physical hardware without needing a pre-existing Operating System.

b) TRUE / FALSE: vCenter Server is required to enable advanced cluster features like vMotion, HA, and DRS.

c) TRUE / FALSE: A vSwitch (Virtual Switch) exists only in software and does not require its own physical hardware housing inside the host.

d) TRUE / FALSE: Host Profiles allow an administrator to "copy and paste" the configuration (NTP, Firewall, etc.) from one ESXi host to many others.

e) TRUE / FALSE: Storage vMotion allows you to move a VM's disk files to a different datastore while the VM is still running.

2. Select the best possible answer (10 Marks)

I. Which of the following best describes "Server Consolidation"?

Answer: b) Running multiple virtual machines on a single physical host to save space and power.

II. What is a "Standard vSwitch" (vSS) primarily responsible for?

Answer: b) Routing traffic between virtual machines and the physical network.

III. Which disk provisioning method is most efficient for saving storage space?

Answer: c) Thin Provisioning

IV. What is the purpose of a Port Group on a vSwitch?

Answer: b) To apply VLAN tags and security policies to a group of virtual ports.

V. Why prefer a Distributed Switch (vDS) over a Standard Switch (vSS)?

Answer: b) It allows centralized network management for all hosts at once from vCenter.

3. Technical Term Completion (10 Marks)

- a) vSphere consists of two core components: the hypervisor known as **ESXi** and the management platform known as **vCenter Server**.
- b) A logical storage container used in VMware to hold all virtual machine files is called a **Datastore**.
- c) The feature that automatically moves Virtual Machines between hosts to balance the workload is called **vSphere DRS**.
- d) A **Private Cloud** is an environment owned and operated solely by a single organization for its own use.
- e) The modern vCenter Server Appliance (vCSA) is now built on a specialized Linux distribution called **Photon OS**.

4. Matching Column A with Column B (5 Marks)

COLUMN A	ANSWER	COLUMN B
1) .vmx	C	Configuration File (VM Settings)
2) vSphere HA	D	Restarts VM on a new host after failure (Brief Downtime)
3) .vmdk	A	Virtual Hard Disk (Actual Data)
4) vSphere FT	B	Keeps a "Shadow VM" for instant takeover (Zero Downtime)
5) vMotion	E	Moves a live, running VM from one host to another with no downtime