

BRAINWARE UNIVERSITY

Course -MSc. (HN)

Virtualization (MHN301)

(Semester-3)

Time allotted: 3 Hours Full Marks: 70

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group -A

(Multiple Choice Type Question)

 $10 \times 1 = 10$

1.	Choose the correct alternative from the fol	lowing	
(i)	Vsphere is the product of?		
	a. Microsoft	b. Oracle	
	c. Novell	d. Vmware	
(ii)	Which are type 1 Hypervisors?		
	a. Vmotion	b. Hyper-v	
	c. Vsphere	d. ESXi	
(iii)	Which application is used to ESXi hosts centrally?		
	a. Vcenter	b. Vclient	
	c. Vmotion	d. HA cluster	
(iv)	P2V stands for		
	a. Physical-to-Vsphere	b. Physical-to-Virtual	
	c. Physical-to-Volume	d. Physical-to-Vertical	
(v)	SCSI stands for		
	a. Small Computer System Interface	b.Smart Calculator System Interface	
	c. Swap Calculate System Interface	d.Symmetric Computing System Interface	

(vi)	In VMware HA stands for	h Uich Avoilability	
	a. Hardware Availability	b. High Availability	
	c. Hardware Access	d. Human Access	
(vii)	To improve the security which feature has been added to ESXi? a. Firewall b. Local Mode		
	c. Anti-Virus	d. vShield	
(viii)			
	a. Elastic Sky X	b. Elastic Sky Xtreme	
	c. Extended Swap X	d. Expanded Space for Xeon	
(ix)	VMware VMFS stands for		
	a.Virtual Mode File System	b.Virtual Model Fat System	
	c.Virtual Machine File System	d.Virtual Mode Fault System	
(x)	Which statement is true about bare metal a. It can be hosted in existing operating system c. It has minimum functionality to support only one type of operating system	b. it requires a separate license for the native operative system d. It run directly on server hardware to provide virtual machines with time sharing resources	
		up – B Type Questions)	
	(Answer any three	from the following)	
			$3 \times 5 = 15$
2.	Explain Virtualization procedure.		[5]
3.	What is VCenter?		[5]
4.	What is Cluster in VMware?		[5]
5.	Define Virtual Machine with suitable exam	ıple.	[5]
6.	Define Type1 Hypervisors.		[5]

Group-C

(Long Answer Type Questions) (Answer any *three* from the following)

			$3x \ 15 = 4$
7.	(a)	What are the differences between clone and snapshot?	[5]
	(b)	Describe storage in virtual machine.	[5]
	(c)	Explain the working principle of VMs in Virtualization procedure.	[5]
8.	(a)	Explain the working procedure of Virtual Machine.	[5]
	(b)	What do you understand by virtual machine clone?	[5]
	(c)	Define VMware workstation.	[5]
9.	(a)	Define Host-to Host adapters in Virtualization.	[5]
	(b)	Define Server virtualization.	[3]
	(c)	What is the minimum requirement for installing Type 2 Hypervisor?	[7]
10.	(a)	Define Datacenter with suitable example.	[4]
	(b)	What is the difference between NAS and SAN storage?	[6]
	(c)	Define DAS in Virtualization.	[5]
11.	(a)	Define Vmotion.	[3]
	(b)	Explain the functionalities of Open Filer in ESXi?	[7]
	(c)	What is Vsphere?	[5]