BRAINWARE UNIVERSITY

Term End Examination 2018 - 19

Programme– Master of Science in Hardware & Networking

Course Name –Virtualization

Course Code – 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 x 1 = 10

1. *Choose the correct alternative from the following*

(i) In VMware HA stands for_____?

     a. Hardware Availability   b. High Availability

     c. Hardware Access   d. Human Access

(ii) Which of the following is not recommended storage platform for virtual machine?

     a. Fiber Channel   b. Fiber Channel over Ethernet

     c. Network –Attached storage   d. SCSI

(iii) To improve the security which new feature has been added to ESXi?

     a. Firewall   b. Local Mode

     c. Anti-Virus   d. Expanded space for Xeon

(iv) What is the minimum RAID level we should use when deploying storage array for disaster recovery in a virtual environment?

     a. RAID 3   b. RAID 1

     c. RAID 4   d. RAID 5

(v) Which statement is true about bare metal hypervisor?

    a. It can be hosted in existing operating system

    b. It require a separate license for the native operating system

    c. It has minimum functionality to support only one type of operating system

    d. It run directly on server hardware to provide virtual machine with time sharing resources

(vi) Is it possible to migrate virtual machines from one storage platform to another?

    a. Yes, all virtualization platform can do that

    b. Yes, some virtualization platform can do that

    c. No

    d. Sometimes it's depends on storage

(vii) How does server virtualization make a data center more efficient?

    a. By decreasing server utilization utility

    b. By increasing server utilization utility

    c. By reducing storage utilization

    d. By increasing storage Utilization

(viii) What is the name of the global unique identifier assigned to each Fiber Channel Port?

    a. IP Address

    b. MAC Address

    c. World Wide Web

    d. Port_ID

(ix) Which of the following vendors do not offer its hypervisor?

    a. Oracle`

    b. Citriix

    c. Cisco

    d. Parrallels

(x) What is the name of the software that lets us to run multiple operating systems on one physical server?

    a. Processor

    b. Guest operating system

    c. Hypervisor

    d. Virtual machine

Group – B

(Short Answer Type Questions)   3 x5 = 15

Answer any *three* from the following
2. Define Templates.   [5]
3. What is Cluster in VMware?   [5]
4. What is virtual networking?   [5]
5. Define the functionality of VMware tools   [5]
6. Define full virtualization.   [5]

Group – C

(Long Answer Type Questions)   3x 15 = 45

Answer any *three* from the following
7.   (a) Describe ESX server related to VMware?   [8]
     (b) What is High Availability in ESXi?   [7]
8.   (a) Explain the working procedure of Virtual Machine.   [5]
     (b) What is bare-metal Hypervisor?   [5]
     (c) What is the different between Virtual Machine and Physical machine? [5]
9.   (a) What is the difference between standard switch and Virtual switch?   [8]
     (b) What are the minimum requirements for installing Type 2 Hypervisors? [7]
10. (a) What is Data store?   [5]
     (b) What is the Thick provision Lazy Zeroed?   [5]
     (c) Define virtual machine.   [5]
11. (a) Explain the functionality of Open Filer in ESXi.   [7]
     (b) What is Vsphere?   [6]
     (c) Define VCenter.   [2]