Reg. No :...............................

Name :...............................

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, MARCH 2024
2022 ADMISSIONS REGULAR
SEMESTER IV - CORE COURSE (BCA (Cloud Technology and Information Security Management)
BCA4B14B18 - Principles of Virtualization`

Time : 3 Hours   **Maximum Marks : 80**

Part A

I. Answer any Ten questions. Each question carries 2 marks   **(10x2=20)**

1. Define a) VM Cluster b) Snapshot.

2. Differentiate persistent and non-persistent disks.

3. Explain the reason for the move to virtualization.

4. How do you allocate resources to a virtual machine by weight and by capacity?

5. What is VHD?

6. What are the disadvantages of RDS?

7. What do you meant by remote Application Server?

8. Which are the components involved in automated role-based Application provisioning?

9. List out the major configurations to be made in client settings for a Remote Desktop session.

10. How do you rename a Snapshot in a virtual machine?

11. Differentiate vSphere Client and vCenter Server.

12. How do you delete a Snapshot in a virtual machine?

Part B

II. Answer any Six questions. Each question carries 5 marks   **(6x5=30)**

13. Discuss about data replication. Differentiate Synchronous and Asynchronous replication.

14. Define hypervisor and its role. Explain the two types of hypervisor with diagram.

15. How Hardware Assisted Virtualization does enhances the performance of Virtual Machine?

16. Write down the steps to enable Hardware Virtualization in PC BIOS.

17. Discuss about the possible disadvantages and limitations of Application Virtualization.

18. How would you configure the RD Web Access Server for RemoteApp and Desktop Connection?

19. Discuss the procedure to configure the initial starting program using the Remote Desktop Session Host Configuration.

20. Explain the methods to install vCenter Server. What are the benefits of vCenter Server Virtual Appliance?

21. Explain the different types of virtual disks in ESXi.

Part C

III. Answer any Two questions. Each question carries 15 marks   **(2x15=30)**

22. Explain Server Consolidation in detail.

23. Explain how to configure Virtual Machine Resources including Network Resources in a virtual machine.

24. Discuss RDS. Illustrate the steps to install and configure Remote Desktop Services on Windows.

25. Explain the steps to be followed for creating a virtual machine on the ESXi host login.