TB214710W   Reg. No :...............................

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

BCA DEGREE (C.B.C.S.) EXAMINATION, MARCH 2023
(2021 Admissions Regular, 2020 Admissions Supplementary / Improvement, 2019 &2018 Admissions Supplementary)
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.   State the advantages of I/O Virtualization.

2.   What do you mean by data replication?

3.   Define Virtualization and server sprawl.

4.   What is the purpose of the i. tool "havdetectiontool.exe" ii. command "cat/proc/cpuinfo|grepvmxsvm"

5.   Which are the possible ways of Network adapter connection to a virtual machine?

6.   What is Windows Homegroup for?

7.   Identify the function of RD Gateway.

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

9.   State the need for automated role-based Application Provisioning.

10. Identify the purpose of a virtual switch.

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

12. How do you create a Snapshot in Hyper-V?

Part B

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

13. List and explain the limitations of VMware.

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

15. How can you add and configure Network Adapters for a Virtual Machine?

16. Indicate the 3 ways we can create a Virtual hard disk. Explain each.

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

18. How do you install remote Application Server?

19. Why do you add a computer account of the RD Web Access Server to the security group? List the procedures involved in doing the same.

20. How do you deploy vCenter?

21. Explain Snapshot. Discuss the different options available in snapshot.

Part C

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

22. Identify the challenges in developing, testing and deploying applications. Determine the role played by VMware virtualization to overcome those challenges.

23. Explain I/O, storage, and server virtualization technologies along with its advantages.

24. Construct an essay on configuring client settings for Remote Desktop Session.

25. Write an essay on Citrix XenDesktop.