

Reg. No .....

Name .....

24U548

**B.C.A. DEGREE END SEMESTER EXAMINATION - OCTOBER 2024**

**SEMESTER 5 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY**

**COURSE : 19U5VCBCA3 : PRINCIPLES OF VIRTUALIZATION**

*(For Regular 2022 Admission and Supplementary 2021/ 2020 / 2019/2018/2017/2016 Admissions)*

Time : Three Hours

Max. Marks: 75

**PART A**

**Answer All (1 mark each)**

1. List any four virtualization technologies.
2. Discuss the primary advantage of Hardware-Assisted Virtualization of the virtual machine?
3. What is the default URL used to access the RD Web Access Web page?
4. Define the term 'Capacity Planning'?
5. What are the different tools for managing remote application?
6. Which format is supported by Citrix Systems for XenServer?
7. Which function is used as the monitoring tool of XenDesktop?
8. What do you mean by Server consolidation?
9. What is the main aim of Server Virtualization?
10. How do you create a VHD file using the command line?

**(1 x 10 = 10)**

**PART B**

**Answer any 8 (2 marks each)**

11. List the merits of Hardware Virtualization Technology in a virtualization environment.
12. What are the different approaches used by different organisation in implementing the server consolidation?
13. How many disk types are used in VMWare? Explain each disk type.
14. What are the methods to install vCenter Server?
15. Discuss the components of the remote desktop service.
16. Differentiate between horizontal and vertical scaling?
17. Discuss the steps of publishing an application to different users.
18. What is the use of PS2 controller in virtual network?
19. What is the cost(limitations) of virtualization?
20. What is Virtual Machine Configuration?

**(2 x 8 = 16)**

**PART C**

**Answer any 5 (5 marks each)**

21. Differentiate between Block level storage virtualization and File level storage virtualization.
22. How can you add and configure Network Adapters for a Virtual Machine?
23. Illustrate how to install windows Virtual PC on a 32-bit platform?
24. Discuss on Remote Desktop Service.
25. How do you create a virtual machine?

26. What are the components of SharedApp VNC? Explain.
27. Explain the basic concepts and terminologies of a cloud?

**(5 x 5 = 25)**

**PART D**

**Answer any 2 (12 marks each)**

28. Compare between VMWare and Microsoft Hyper-V?
29. State and explain the components of blade systems?
30. Explain in detail the pros and cons of the Remote Desktop Service.
31. Elaborate about the different ways to allocate virtual machine's system resources.

**(12 x 2 = 24)**