

BCA DEGREE END SEMESTER EXAMINATION - OCT. 2020 : JANUARY 2021**SEMESTER 5 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY****COURSE : 16U5VCBA3 : PRINCIPLES OF VIRTUALIZATION***(For Regular - 2018 Admission and Supplementary -2017 / 2016 Admissions)*

Time : Three Hours

Max. Marks: 75

PART A**Answer All (1 mark each)**

1. What do you mean by Emulation? Give an example for an emulator?
2. Define Virtual Machine?
3. What is the significance of the Hypervisor?
4. Define VHD?
5. What is the latest Microsoft Technology for Windows 7?
6. How do you create a VHD file using the command line?
7. What are the components of SharedApp VNC?
8. Define RemoteApp?
9. What is Citrix Studio?
10. What do you mean by Hyper V?

(1 x 10 = 10)**PART B****Answer any 8 (2 marks each)**

11. How can the virtualisation play a major role in Software Development and testing
12. Discuss VMware Consolidated Backup?
13. List out the different ways to allocate the system resources to a Virtual Machine?
14. What is the drawback of creating virtual machines with available default configuration?
15. What are the different types of application Virtualization? Explain.
16. Outline the functionality of Remote application server?
17. Why do we need Client Access Licence(CAL) in RD Licensing?
18. What do you mean by XenDesktop?
19. Distinguish between vSphere Client and vCenter Server?
20. How can we monitor the overall performance of the network?

(2 x 8 = 16)**PART C****Answer any 5 (5 marks each)**

21. What are the challenges encountered in Disaster Recovery?
22. Compare the differences between ESX and GSX servers.
23. How do you configure Virtual Machine Resources?
24. Compare and discuss the SCSI controller, PCI Controller, and PS2 controller in Virtual Network?
25. Illustrate the steps to install Remote Desktop Services on Windows?
26. Discuss on VMware Vcenter Server?
27. Discuss the different types of Hyper-V Virtual Networks?

(5 x 5 = 25)

PART D

Answer any 2 (12 marks each)

28. Explain storage, desktop and network virtualization along with its advantages.
29. Explain how to configure BIOS to support Hardware Virtualization?
30. What is RDS? Illustrate the steps to install and configure Remote Desktop Services on Windows?
31. Discuss the major components of Citrix XenDesktop?

(12 x 2 = 24)