BCA DEGREE END SEMESTER EXAMINATION : OCTOBER 2022
SEMESTER 5 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY
COURSE : 19U5VCBCA3 : PRINCIPLES OF VIRTUALIZATION
(For Regular - 2020 Admission and Supplementary - 2016 / 2017 / 2018 / 2019 Admissions)

Time : Three Hours   Max. Marks: 75

PART A
Answer All (1 mark each)

1. Define RDP.
2. Define Virtual Network.
3. What do you mean by Virtual Hard Disk?
4. List some of the examples of Hardware-Assisted virtualization technology by different vendors.
5. What are the two options available for Vcenter using Vcenter deployment wizard?
6. State the NIST definition of 'Cloud'?
7. Define the term 'Farm' in remote desktop service.
8. How can we classify the consolidation projects according to Gartner research?
9. What is Virtual Machine Configuration?
10. Explain the taxonomy of virtual machine.

(1 x 10 = 10)

PART B
Answer any 8 (2 marks each)

11. List out the different ways to allocate the system resources to a Virtual Machine.
12. What is the use of a network adapter in a Virtual network?
13. What does it mean if the Network adapter connection to the virtual machine is "Microsoft Lookback Adapter"?
14. Distinguish between user reports and group reports.
15. Define the term scaling? Differentiate between the two types of scaling?
16. What are the major advantages of SharedApp VNC tool?
17. Discuss VMware Consolidated Backup.
18. Discuss the AVHD File of Hyper-V.
19. Differentiate between horizontal and vertical scaling?
20. Examine the Prerequisites for installing ESXi.

(2 x 8 = 16)

PART C
Answer any 5 (5 marks each)

21. Write short notes about Virtualization.
22. Explain the different ways to allocate system resources to Virtual Machine.
23. List out the steps to install Windows Virtual PC on a 32-bit platform.
24. What are the components of SharedApp VNC? Explain.
25. Explain I/O Virtualization Architecture with a neat diagram.

26. Discuss the possible disadvantages of application Virtualization.

27. Explain the different types of virtual disks.

(5 x 5 = 25)

PART D
Answer any 2 (12 marks each)

28. Explain in detail the pros and cons of the Remote Desktop Service.

29. Explain storage, desktop and network virtualization along with its advantages.

30. How do you create a Virtual Machine? List down the steps to be followed to create a virtual machine using Hyper-V on Windows Server.

31. Discuss in detail the different hardware that is available for Virtual Machine in Virtual Network?

(12 x 2 = 24)