

**SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)**

**(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai — 600 044.**

B.Sc. END SEMESTER EXAMINATIONS NOVEMBER-2022

SEMESTER - III

21UCGCT3004 - Virtualization and Cloud

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

Section A

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Summarize the various computing paradigm with different functionality.
2. Categorize the five essential characteristics of cloud computing with suitable diagrams.
3. Dropbox is a cloud storage service that lets users to easily store and share files with other people and access files from a mobile device also. Analyze which type of service is suitable for dropbox in SaaS and IaaS since it provides two types of services.
4. Illustrate your understanding of hypervisor and its role. Give an example.
5. Summarize the steps in virtual machine management.
6. Demonstrate the process of establishment of virtual machine security.
7. Classify the goals and advantages of Data Centers.
8. Examine the Data Centre Architecture with neat diagram.

Section B

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Illustrate the functioning of distributed file system with example.
10. Analyze the types of deployment models of cloud and suggest for which types of organisations the different cloud deployment model is suitable.
11. Justify your view on how different resources can be virtualized using proper virtualization technologies and what are the virtualization opportunities available.
12. Analyze the network and storage scalability in virtual machines.
13. Discuss and appraise the various steps and components involved in setting up a data center.

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