

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.C.A - END SEMESTER EXAMINATIONS - NOV'2024

SEMESTER - III

23UACT3004 - Cloud Computing

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

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

1. Define Cloud Computing and explain why it is becoming increasingly important in today's technological landscape.
2. What is the Cloud Cube Model? Discuss its Components.
3. Briefly explain the different layers of cloud computing and their significance.
4. What is Virtualization? Briefly explain its types.
5. Define Service-Oriented Architecture (SOA) and describe its role in cloud computing.
6. Explain the challenges related to security in cloud computing.
7. What is Hadoop? Describe its role in cloud computing.
8. What is MapReduce? Describe its functionality in cloud computing.

Section C

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

9. Discuss the advantages and limitations of Cloud Computing.
Support your discussion with real-world examples.
10. Compare and contrast the different deployment models of cloud computing.
11. Explain the concept of Virtualization Structures, Tools, and Mechanisms.
How is virtualization implemented for CPU, Memory, and I/O devices?
12. Discuss the various resource provisioning methods in cloud computing.
How do they help in effective resource management?
13. Analyze the Federation in cloud computing and explain the four levels of federation with examples.
