

**PRACTICE SET**  
**End Sem Examination (Fall-2025)**

**Program: BCA**  
**Semester: V**  
**Course: Cloud Computing**  
**Course Code: 3CCDE301**

<b>Course Outcomes</b>	<b>After the successful completion of the course, the students will be able to:</b>
CO1	Explain the core concepts of the cloud computing paradigm.
CO2	Apply fundamental concepts in cloud infrastructures to understand the trade-offs in power, efficiency and cost
CO3	Illustrate the fundamental concepts of cloud storage and demonstrate their use in storage systems such as Amazon.
CO4	Analyze various security and privacy concern of cloud programming models and apply them to solve problems on the cloud.

**UNIT - I**

**Section A: 5 marks each question**

1. Explain the concept of virtualization. [CO1] [Unit-1] [Understand, LOT]
2. Define cloud computing. [CO1] [Unit-1] [Remember, LOT]
3. List the major benefits of cloud computing. [CO1] [Unit-1] [Understand, LOT]
4. Explain the concept of HA/DR in cloud computing.[CO1] [Unit-1] {Understand, LOT]
5. Discuss the possible risks or challenges of cloud computing. [CO1] [Unit-1] [Understand, LOT]
6. Name Top leading cloud computing companies. [CO1] [Unit-1] [Remember, LOT]
7. How Data centre foot print calculated? [CO1] [Unit-1] [Apply, LOT]
8. Why is a Data Centre Footprint Important? [CO1] [Unit-1] [Evaluate, HOT]

## **Section B: 10 marks each question**

9. Explain Storage Area Network (SAN). What are its key advantages? [CO1] [Unit-1] [Understand, LOT]
10. Define the term data centre footprints. What components are included in a data centre footprint? [CO1] [Unit-1] [Understand, LOT]
11. Explain the advantages and disadvantages of Virtualization. [CO1] [Unit-1] [Understand, LOT]
12. Write the characteristic of Virtualization? [CO1] [Unit-1] [Understand, LOT]

## **Section C: 20 marks each question**

13. What is KVM? How it works. What is its feature? [CO1] [Unit-1] [Analyze, LOT]
14. Differentiate the types of Virtualizations. Write the benefits of Virtualization [CO1] [Unit-1] [Analyze, HOT]

## **UNIT - II**

### **Section A: 5 marks each question**

15. Explain QRM? [CO2] [Unit-2] [Remember, LOT]
16. What is the key component of QRM? [CO2] [Unit-2] [Remember, LOT]
17. List and describe the major advantages of using a Public Cloud.[CO2] [Unit-2] [Remember, LOT]
18. Define Private Cloud and mention its main characteristics. [CO2] [Unit-2] [Remember, LOT]
19. Write the benefits of QRM? [CO2] [Unit-2] [Remember, LOT]

### **Section B: 10 marks each question**

20. Write the advantages and disadvantages of multi-cloud cloud? [CO2] [Unit-2] [Analyze, HOT]
21. Anything are the advantages and disadvantages of public cloud? [CO2] [Unit-2] [Analyze, LOT]
22. Explain the advantages and disadvantages of private cloud? [CO2] [Unit-2] [Analyze, LOT]
23. Write are the advantages and disadvantages of hybrid cloud? [CO2] [Unit-2] [Analyze, LOT]

24. What are the advantages and disadvantages of community cloud? [CO2] [Unit-2]  
[Analyze, HOT]

**Section C: 20 marks each question**

25. Explain different services of cloud computing. [CO2] [Unit-2] [Understand, LOT]  
26. What is Cloud Computing? Explain the different types are of cloud Computing.  
[CO2] [Unit-2] [Analyze, HOT]

**UNIT - III**

**Section A: 5 marks each question**

27. What you mean by EC2 pricing? [CO3] [Unit-3] [Remember, LOT].  
28. Explain its main features and services of AWS. [CO3] [Unit-3] [Remember, LOT].  
29. Explain EC2 metadata? [CO3] [Unit-3] [Remember, LOT].  
30. What is EBS? [CO3] [Unit-3] [Remember, LOT].  
31. Explain EC2 pricing? [CO3] [Unit-3] [Remember, LOT].  
32. Explain the different types of EC2 instances and their uses. [CO3] [Unit-3]  
[Remember, LOT].

**Section B: 10 marks each question**

33. Differentiate between elastic block storage and instance storage? [CO3] [Unit-3]  
[Analyze, LOT].  
34. Explain the different EC2 instance types? [CO3] [Unit-3] [Understand, LOT].  
35. What are the advantages of AWS? [CO3] [Unit-3] [Understand, LOT].

**Section C: 20 marks each question**

36. What is Tata Cloud? Write down its features of Tata Cloud? [CO3] [Unit-3]  
[Understand, LOT].

**UNIT - IV**

**Section A: 5 marks each question**

37. Explain qubits with suitable example. [CO4] [Unit-4] [Remember, LOT].  
38. Describe cryptography with example. [CO4] [Unit-4] [Remember, LOT].  
39. What is cipher text? [CO4] [Unit-4] [Remember, LOT].  
40. Explain quantum cryptography? [CO4] [Unit-4] [Remember, LOT].  
41. Why is encryption important in data security? [CO4] [Unit-4] [Remember, LOT].

**Section B: 10 marks each question**

42. Explain different types of cryptography. [CO4] [Unit-4] [Understand, LOT].
43. Define the terms "security" and "privacy" in the context of information technology.  
[CO4] [Unit-4] [Remember, LOT].

**Section C: 20 marks each question**

44. Define qubits and explain their significance in quantum computing and quantum cryptography. [CO4] [Unit-4] [Apply, HOT].
45. Briefly introduce the concept of quantum cryptography. Discuss how it differs from classical cryptography. [CO4] [Unit-4] [Analyze, HOT].
46. Differentiate between Symmetry Cryptography and Asymmetric Cryptography?  
What are the three stages of quantum cryptography algorithm, Explain? [CO4] [Unit-4] [Apply, HOT].

**Summary Sheet: BCA V(3PCCCS201)****CO Wise**

CO	Q. No	Marks
CO1	1,2,3,4,5,6,7,8,9,10,11,12,13,14	120
CO2	15,16,17,18,19,20,21,22,23,24,25,26	115
CO3	27,28, 29, 30, 31 ,32, 33, 34, 35, 36	80
CO4	37, 38, 39, 40, 41, 42, 43, 44, 45, 46	105
<b>Total</b>		<b>420</b>

**Unit Wise**

Unit	Q. No	Marks
Unit 1	1,2,3,4,5,6,7,8,9,10,11,12,13,14	120
Unit 2	15,16,17,18,19,20,21,22,23,24,25,26	115
Unit 3	27, 28, 29, 30, 31 ,32, 33, 34, 35, 36	80
Unit 4	37, 38, 39, 40, 41, 42, 43, 44, 45, 46	105
<b>Total</b>		<b>420</b>

**Blooms Taxonomy Level (BTL) Wise**

BTL	Q. No	Marks
LOT	1,2,3,4,5,7,8,9,10,11,12,12,15,16,17,18, 19,21,22,23,28,29,30,31,32,33,34,35, 36,37,38,39,40,41,42,43	340
HOT	14, 20, 24, 26, 44	80
<b>Total</b>		<b>400</b>

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**Disclaimer:** - This is a Practice Set. The Question in End term examination will differ from the Practice set. This Practice set is meant for practice only.