



*K. Sambath*

**Avinashilingam Institute for Home Science and Higher Education for Women**  
Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD (now MoE)  
Re-accredited with A++ Grade by NAAC. CGPA 3.65/4, Category I by UGC  
Coimbatore - 641 043, Tamil Nadu, India

**Continuous Internal Assessment Test I – February 2026**  
**VI Semester**

**Class : III UG**  
**Major : Computer Applications**

**Time: 2 hours**  
**Maximum Marks: 60**

**23BCADE5 Cloud Computing**

**Course Outcomes:**

At the end of the course, students will:

1. Acquire the knowledge on the basics of cloud computing.
2. Identify the architecture, infrastructure and delivery models of cloud computing.
3. Apply suitable virtualization concept for real-world problems.
4. Select the appropriate cloud player and its services for deploying a cloud environment.
5. Address the core issues of cloud computing such as security, privacy and interoperability

**Part - A**

**6 x 1 = 6**

**Choose the Correct Answer**

1. Cloud computing allows \_\_\_\_\_ CO1 K1  
a. Fixed capacity      b. Unlimited scalability      c. Local-only access      d. Hardware dependence
2. The key factor distinguishes cloud computing from traditional IT infrastructures is CO1 K1  
a. Decentralization      b. Centralized hardware      c. On-site management      d. Manual updates
3. A company moved to a cloud environment, but users are facing slow data access times.  
What could be the cause? CO2 K2  
a. Insufficient bandwidth      b. Automatic scaling      c. Virtualization      d. Dedicated server allocation
4. In virtualization, what is the function of a hypervisor? CO2 K2  
a. Manages the virtual machine and hardware interaction      b. Creates storage clusters  
c. Optimizes network bandwidth      d. Enhances security
5. Which of the following is an example of Software as a Service? CO3 K2  
a. Microsoft Azure      b. Amazon EC2      c. VMware      d. Google Docs
6. The characteristic of community cloud deployment is CO3 K2  
a. Only available to government organizations      b. No scalability  
c. Infrastructure is shared between several organizations  
d. Infrastructure is managed by a single organization

**Part - B**

**3 x 6 = 18**

**Answer ALL Questions**

**Each answer should not exceed 400 words or two pages**

7. a. Explain the five essential characteristics of cloud computing. CO1 K2  
(or)
7. b. Describe the applications of cloud computing in different domains. CO1 K2
8. a. Define virtualization and explain the concept of the "Host-Guest" relationship. CO2 K3  
(or)
8. b. Describe how a hypervisor enables virtualization. CO2 K2
9. a. Discuss the concept and features of Infrastructure as a Service. CO3 K2  
(or)
9. b. Distinguish between public and private cloud deployment models. CO3 K2

**Part - C**

**3 x 12 = 36**

**Answer ALL questions**

**Each answer should not exceed 800 words or four pages**

10. a. Discuss the key advantages and challenges of adopting cloud computing. CO1 K2  
(or)
10. b. Explain the concept of cloud service providers and describe their services in detail. CO1 K2
11. a. Describe the characteristics of virtualized environment. CO2 K2  
(or)
11. b. Elaborate on the different types of virtualizations. CO2 K2
12. a. Discuss the structure and components of the cloud computing reference model. CO3 K2  
(or)
12. b. Explain the structure and working of cloud architecture in detail. CO3 K2