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**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

Colombatore - 641 043, Tamil Nadu, India

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

**VI Semester**

**Class : III UG (2019 & 2022 Repeaters)**

**Major : Computer Applications**

**18BCAC30/21BCAC30 Cloud Architecture and Services**

**Time: 2 hours**

**Maximum Marks: 60**

**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. The primary aim of cloud computing is to reduce \_\_\_\_\_ CO1 K1  
a. Security      b. Cost      c. Speed      d. Reliability
2. Which of the following is a primary characteristic of cloud computing? CO1 K1  
a. On-demand self-service      b. High latency      c. Fixed storage      d. Manual resource allocation
3. The key advantage of a private cloud model is. CO2 K1  
a. Shared resources      b. Increased security      c. Low cost      d. Limited scalability
4. The primary benefit of virtualization in cloud computing is CO2 K1  
a. Increased physical servers      b. Faster network speeds  
c. Resource optimization      d. Lower bandwidth usage
5. The main advantage of using cloud storage over traditional on-premise storage is CO3 K1  
a. Higher security      b. Faster access      c. More control      d. Scalability
6. Which cloud service model is best suited for developers who want to build custom applications without managing infrastructure? CO3 K1  
a. SaaS      b. PaaS      c. IaaS      d. CaaS

**Part - B**

**3 x 6 = 18**

**Answer ALL Questions**

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

7. a. Explain the evolution and growth of cloud computing. CO1 K1  
(or)
7. b. Explain the limitations and challenges associated with cloud computing. CO1 K1
8. a. Differentiate between Type1 and Type2 hypervisors in terms of performance. CO2 K2  
(or)
8. b. Explain the limitations and drawbacks of virtualization. CO2 K1
9. a. Discuss the concept and features of Platform as a Service. CO3 K1  
(or)
9. b. Differentiate between Private Cloud and Community Cloud. CO3 K2

**Part - C**

**3 x 12 = 36**

**Answer ALL questions**

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

10. a. Explain the significance and role of cloud service providers in cloud computing. CO1 K2  
(or)
10. b. Describe the types of cloud services offered in cloud computing in detail. CO1 K2
11. a. Discuss the role and importance of virtualization in cloud computing. CO2 K1  
(or)
11. b. Elaborate on the major types of virtualization used in computing. CO2 K2
12. a. Discuss the components and layers of cloud architecture in detail. CO3 K1  
(or)