

KAMARAJ COLLEGE (Autonomous)

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(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

(4 Pages)

Reg. No:.....

Question Code: 26E02009

Course Code: 24UECA42

UG Degree - End Semester Examinations, April 2026

Fourth Semester

B.C.A

Cloud Computing

(For those who joined in July 2024 onwards)

Time : 3Hours

Maximum : 75 Marks

PART - A (10 × 1 = 10 Marks)

Answer ALL Questions

Choose the correct answer :

- CO:1 1. Cloud computing mainly provides services through _____
K:1 (a) Local server (b) Internet
(c) USB drive (d) CD-ROM
- CO:1 2. Distributing workload across multiple servers is known as _____
K:1 (a) Load Balancing (b) Deployment
(c) Billing (d) IAM
- CO:2 3. Which Google service provides relational database management?
K:2 (a) Google Cloud Data Store (b) Google Cloud SQL
(c) Google Cloud Storage (d) Google Media Service
- CO:2 4. Queuing services are mainly used for _____
K:1 (a) Storing images (b) Managing background tasks
(c) Creating virtual machines (d) Content delivery
- CO:3 5. The ability of a system to operate without failure is called _____
K:1 (a) Performance (b) Availability
(c) Reliability (d) Deployment

- CO:3 6. SOA stands for _____
K:1 (a) System Oriented Architecture (b) Service Oriented Architecture
(c) Software Organized Application (d) Secure Online Access
- CO:4 7. Load testing is a type of _____
K:1 (a) Security test (b) Performance test
(c) Billing test (d) Backup test
- CO:4 8. Key management is mainly used for _____
K:1 (a) Managing users (b) Managing encryption keys
(c) Monitoring performance (d) Deployment
- CO:5 9. Medical image storage in hospitals is an example of _____
K:1 (a) Cloud analytics (b) Cloud storage
(c) Cloud billing (d) Cloud deletion
- CO:5 10. The educational institutions adopt cloud platforms _____
K:2 (a) Limit student access (b) Provide flexible and remote learning
(c) Remove digital tools (d) Stop collaboration

PART - B (5 X 5 = 25 Marks)

Answer ALL Questions choosing either (a) or (b).

Answer should not exceed 250 words.

- CO:1 11. (a) Illustrate how virtualization is used in a cloud data center
K:3 with a simple example.

(OR)

- (b) Demonstrate the use of monitoring tools to track performance of cloud services

- CO:2 12. (a) Compare Amazon Simple Storage Service and Google Cloud
K:4 Storage.

(OR)

- (b) Analyze the role of Application Runtimes and Frameworks in cloud platforms.

- CO:3 13. (a) Analyze the importance of scalability in cloud application design.

K:4

(OR)

- (b) Examine the difference between IaaS, PaaS, and SaaS in cloud applications.

- CO:4 14. (a) Demonstrate the steps involved in conducting benchmarking
K:3 for a cloud application.

(OR)

- (b) Illustrate how auditing helps in improving cloud security.

- CO:5 15. (a) Show how cloud computing can improve traffic management
K:3 in transportation systems.

(OR)

- (b) Apply cloud computing solutions to improve production monitoring in a manufacturing company.

PART - C (5 X 8 = 40 Marks)

Answer ALL Questions choosing either (a) or (b).

Answer should not exceed 500 words.

- CO:1 16. (a) Compare and analyze different cloud service models with
K:4 suitable examples.

(OR)

- (b) Examine how load balancing improves system performance and availability.

- CO:2 17. (a) Evaluate the effectiveness of Amazon Simple Storage Service
K:5 for large-scale data storage.

(OR)

- (b) Justify the need for Content Delivery Networks in modern web applications.

- CO:3 18. (a) Evaluate the effectiveness of Service Oriented Architecture in
K:5 cloud systems.

(OR)

- (b) Explain the benefits of using Restful services in cloud application development.

- CO:4 19. (a) Examine the difference between securing data at rest and
K:4 securing data in motion.

(OR)

(b) Compare different types of benchmarking tests used in cloud environments.

CO:5 20. (a) Propose a cloud-based education platform that supports
K:6 online classes and assessments.

(OR)

(b) Develop a cloud solution for monitoring and controlling smart energy systems.