

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCA DEGREE EXAMINATION MAY 2025
(Sixth Semester)

Branch – COMPUTER APPLICATIONS

CLOUD APPLICATIONS & DEVELOPMENT

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

1. Find the following cloud models which provide a mix of private and public cloud?
(a) Public Cloud (b) Private Cloud
(c) Hybrid Cloud (d) Community Cloud
2. Which cloud service provides virtual machines and computing resources?
(a) Storage as a Service (STaaS) (b) Compute as a Service (CaaS)
(c) Infrastructure as a Service (IaaS) (d) Platform as a Service (PaaS)
3. Which of the following is a key consideration when designing cloud applications?
(a) Fault tolerance (b) Limited scalability
(c) High latency (d) Manual backup processes
4. Indicate the protocol which is commonly used for live video streaming in cloud environments?
(a) FTP (b) HTTP (c) SMTP (d) RTMP
5. What is the primary function of Identity & Access Management (IAM) in cloud security?
(a) Controlling and monitoring user access (b) Encrypting data at rest
(c) Preventing DDoS attacks (d) Managing cloud costs

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

6. (a) Analyze the characteristics of cloud computing
OR
(b) Bring out the various cloud service models with examples.
7. (a) Outline different types of cloud storage services.
OR
(b) Explain the role of identity and access management in cloud security.
8. (a) Produce the key considerations in designing a cloud application.
OR
(b) Sketch different data storage approaches in cloud computing.
9. (a) Show different streaming protocols used in multimedia cloud.
OR
(b) Explain the benchmarking tools used for cloud performance evaluation.
10. (a) State the key management process in cloud security.
OR
(b) Explain the role of cloud computing in the transportation industry.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

11. (a) Examine different cloud models and their applications.
OR
(b) Discuss cloud-based services and applications with real-world examples.
12. (a) Enumerate various database services provided by cloud platforms.
OR
(b) Highlight the significance of open-source private cloud software.
13. (a) Classify different design methodologies for cloud applications.
OR
(b) Trace the reference architecture for cloud applications.
14. (a) Outline cloud application benchmarking methodologies.
OR
(b) Survey the process of cloud deployment prototyping.
15. (a) Discuss the cloud security measures for data protection.
OR
(b) Summarize the applications of cloud computing in manufacturing industries.

Z-Z-Z

END