

B.Sc. (CBCS) DEGREE EXAMINATION,  
APRIL, 2024.

Fifth Semester

Computer Science – Major Elective

CLOUD COMPUTING

(For those who joined in July 2021-2022)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

- Applications and services that run on a distributed network using virtualized resources is known as \_\_\_\_\_ computing
  - Parallel
  - Soft
  - Distributed
  - Cloud

- Which of the following architectural standards is working with cloud computing industry?
  - Web-application frameworks
  - Service-oriented architecture
  - Standardized Web services
  - Web-application architecture
- What is the formula to calculate the cost of a cloud computing deployment?
  - $Cost_{CLOUD} = \Sigma (UnitCost_{CLOUD} / (Revenue + Cost_{CLOUD}))$
  - $Cost_{CLOUD} = \Sigma (UnitCost_{CLOUD} / (Revenue - Cost_{CLOUD}))$
  - $Cost_{CLOUD} = \Sigma (UnitCost_{CLOUD} \times (Revenue - Cost_{CLOUD}))$
  - $Cost_{CLOUD} = \Sigma (UnitCost_{CLOUD} \times (Revenue + Cost_{CLOUD}))$
- Cloud computing is a concept that involves pooling physical resources and offering them as which sort of resource?
  - cloud
  - real
  - virtual
  - service

- Which of the following is the most essential element in cloud computing by CSA?
  - Virtualization
  - Multi-tenancy
  - Identity management
  - Access management
- Which of the following is the most important area of concern in cloud computing?
  - Scalability
  - Storage
  - Security
  - Service
- Which is the most essential concept related to Cloud computing?
  - Abstraction
  - Reliability
  - Productivity
  - Efficiency
- Which of the following is the Cloud Platform provided by Amazon?
  - AWS
  - Cloudera
  - Azure
  - Alexa
- A cloud service that provides automation services, virtual machines, load balancers, and firewalls is \_\_\_\_\_
  - IaaS
  - PaaS
  - SaaS
  - CaaS

- Cloud computing is essentially performed with OpenStack as \_\_\_\_\_
  - IaaS
  - PaaS
  - SaaS
  - CaaS

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b)

Each answer should not exceed 250 words.

- Compare traditional and cloud computing paradigms.

Or

  - Write a note on cloud deployment models.
- Give cloud computing life cycle

Or

  - Write a note on VMWare.
- Write a note on SOA components.

Or

  - Write a note on data privacy risks in the cloud.

14. (a) What are the requirements for disaster recovery?

Or

(b) What are the types of migration for cloud enabled applications?

15. (a) Give the benefits of Open Stack.

Or

(b) Write a note on the major components of Hadoop.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)

Each answer should not exceed 600 words.

16. (a) Explain cloud computing characteristics.

Or

(b) Explain cloud storage devices.

17. (a) Explain the types of virtualization.

Or

(b) Explain mobile cloud computing architecture.

Page 5 Code No. : 10522 E

18. (a) Explain SOA Infrastructure.

Or

(b) Explain cloud risk management framework.

19. (a) Explain the types of SLAS.

Or

(b) Explain Google Drive.

20. (a) Explain the features of Nimbus.

Or

(b) Discuss the applications of cloud computing.

Page 6 Code No. : 10522 E