

(7 pages)

Reg. No. :

Code No. : 10535 E Sub. Code : CMCA 61

B.C.A. (CBCS) DEGREE EXAMINATION,
APRIL 2024.

Sixth Semester

Computer Application – Core

CLOUD COMPUTING

(For those who joined in July 2021–2022 only)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL the questions.

Choose the correct answer.

1. Which of the following is not a characteristic of cloud computing?
 - (a) On-demand self-service
 - (b) Network access
 - (c) Limited scalability
 - (d) Resource pooling

2. What is the term for combining on-premises infrastructure with cloud resources?
 - (a) Distributed Cloud
 - (b) Multi-Cloud
 - (c) Hybrid Cloud
 - (d) Managed Cloud
3. What does the term “cloud computing architecture” refer to?
 - (a) The physical infrastructure of data centers
 - (b) The design and layout of virtualized resources and components
 - (c) The programming languages used in cloud applications
 - (d) The security protocols implemented in cloud environments
4. Which layer of cloud architecture is responsible for managing user interfaces and interactions?
 - (a) Application layer
 - (b) Presentation layer
 - (c) Data layer
 - (d) Infrastructure layer



5. Which cloud computing component is responsible for creating and managing virtual instances of servers?
- (a) Hypervisor
 - (b) Load balancer
 - (c) Virtual machine
 - (d) Virtual private network
6. Which virtualization technique allows multiple virtual machines to run on a single physical server?
- (a) Full virtualization
 - (b) Para-virtualization
 - (c) Hardware-assisted virtualization
 - (d) Containerization
7. What is the purpose of redundancy in cloud storage?
- (a) To reduce storage costs
 - (b) To increase data security
 - (c) To decrease accessibility
 - (d) To improve data retrieval speed

8. What does S3 stand for in Amazon S3?
- (a) Simple Storage Service
 - (b) Secure Storage Service
 - (c) Structured Storage Service
 - (d) Storage Sharing Service
9. Identify a popular example of a SaaS application:
- (a) Microsoft Windows
 - (b) Google Docs
 - (c) Apple Mac OS
 - (d) Local video editing software
10. Which service model provides a platform for developers to build and deploy applications?
- (a) IaaS
 - (b) PaaS
 - (c) SaaS
 - (d) CaaS (Container as a service)



PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) State the pros and cons of cloud computing.

Or

- (b) Classify and explain the different types of clouds.

12. (a) Write short notes on cloud life cycle model.

Or

- (b) Summarize the concepts of cloud governance.

13. (a) Enumerate the advantages of virtualization.

Or

- (b) Narrate the anatomy of cloud infrastructure.

14. (a) Comment on provisioning cloud storage.

Or

- (b) Write detailed notes on data security in cloud.

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15. (a) Explain the following

(i) SaaS

(ii) PaaS

Or

- (b) Give a comment on Eucalyptus.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Illustrate the history and characteristics of cloud computing.

Or

- (b) Discuss the cloud service and deployment models in detail.

17. (a) Narrate the model for federated cloud computing.

Or

- (b) Draw and Explain the cloud system architecture in detail with a suitable diagram.

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18. (a) Describe the role of hypervisor in virtualization. Also briefly explain the different types of hypervisors with a neat diagram.

Or

- (b) Write in detail about the Virtualization of CPU with suitable diagram.

19. (a) Describe in detail about the cloud Storage with example.

Or

- (b) Illustrate the types of risks in cloud computing.

20. (a) Explain in detail about VMWare.

Or

- (b) Describe the architecture of Windows Azure.
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