



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
Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Examination – May 2025
V Semester

Batch:2022 Arrear

Time: 3 hours

Major: Computer Science

Max.Marks:100

21BCSC22 – Cloud Computing

Course Outcomes:

- CO1. Understand the cloud computing paradigm and its importance.
- CO2. Analyze components of cloud computing and understand how business agility in an organization can be created.
- CO3. Critique the consistency of services deployed from a cloud architecture.
- CO4. Compare and contrast the economic benefits delivered by various cloud models based on application requirements, economic constraints and business requirements.
- CO5. Explore some important cloud computing driven commercial systems.

Part A

10x1 = 10

Answer all questions

1. Which of the following is true about cloud computing? CO1 K2
 - a. cloud computing is platform-dependent
 - b. Cloud computing makes business applications mobile and collaborative
 - c. Cloud computing provides us with a means of accessing the resources as utilities over a Network
 - d. Cloud Computing is a technology that offers free services on the Internet.
2. Which feature of cloud computing allows users to release resources as soon as they are no longer needed? CO1K2
 - a. Self-service
 - b. Per-Usage Metering and Billing
 - c. Elasticity
 - d. Customization
3. Which of the following is Microsoft's cloud platform? CO2 K2
 - a. Azure
 - b. AWS
 - c. Cloudera
 - d. VMware
4. Which of the following is a technique that allows sharing a single physical instance of an application or its resources among multiple organizations or customers? CO3K2
 - a. Virtualization
 - b. Service-Oriented Architecture
 - c. Grid Computing
 - d. Utility Computing
5. A public cloud:
 - a. It is a cloud established within an enterprise data centre
 - b. It can be accessible by anyone
 - c. It is offered offline
 - d. All the above
6. Microsoft Azure is a _____ cloud. CO3K2
 - a. Public
 - b. Private
 - c. Hybrid
 - d. partial
7. IAM uses _____ facility to allow users to authenticate their identity with one portal instead of many different resources. CO4K2
 - a. Single Sign-On
 - b. Oauth
 - c. Encryption
 - d. SAML
8. Which of the following service provider provides the least amount of built-in security? CO4K2
 - a. Platform as a Service
 - b. Software as a Service
 - c. Hardware as a Service
 - d. Infrastructure as a Service
9. Google App Engine falls in the category of CO5K2
 - a. PaaS
 - b. SaaS
 - c. Haas
 - d. IaaS

10. Eucalyptus stands for

CO5K2

- a. Elastic Utility Computing Architecture For Linking Your Programs To Useful Systems
- b. Electrically Utility Computing Architecture For Linking Your Programs To Useful Systems
- c. Elastic Utility Computing Argument For Linking Your Programs To Useful Systems
- d. Elastic Utility Computing Architecture For Linking Your Programs To Useful Secure

Part B

5 x 6 = 30

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 11. a. What are the characteristics of Cloud computing? CO1K2
(or)
- 11.b. Compare cloud computing with other computing paradigms. CO1K2
- 12.a. Brief on the benefits and limitations of cloud computing. CO2K2
(or)
- 12.b. Name a few major cloud service providers and their services. CO2K2
- 13. a. Write a note on SLA. CO3K2
(or)
- 13.b. Elaborate on cloud scalability. CO3K2
- 14.a. Write a note on the Jurisdictional issues raised by Data location CO4K2
(or)
- 14.b. Elaborate on data privacy and security issues. CO4K2
- 15. a. Write a note on Microsoft Azure. CO5K2
(or)
- 15. b. Write about Google App Engine. CO5K2

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 16. a. Discuss in detail the characteristics and pros and cons of cloud service models CO1K2
(or)
- 16.b. Describe the NIST cloud computing architecture with a neat schematic diagram CO1K2
- 17. a. Elaborate on private and public cloud deployment models, focusing on characteristics, suitability, advantages, and disadvantages. CO2K2
(or)
- 17.b. Elaborate on hybrid and community cloud deployment models, focusing on characteristics, suitability, advantages, and disadvantages. CO2K2
- 18. a. Briefly discuss the Economics of scaling CO3K2
(or)
- 18.b. Discuss in detail about IAM and its components. CO3K2
- 19. a. Describe the cloud infrastructure level security. CO4K2
(or)
- 19.b. Discuss in detail the host-level security. CO4K2
- 20.a. Explain in detail Amazon Web Services. CO5K2
(or)
- 20.b. Discuss in detail the architecture of the Eucalyptus cloud CO5K2