Roll No.:



Galgotias College of Engineering and Technology, Greater Noida Pre-University Test (PUT): Odd Semester 2024 - 2025

Subject Name Course/Branch :Cloud Computing

Max. Marks :100 Semester ':III

CO-1: Understand the concepts of Cloud Computing, key technologies, strengths and limitations of Subject Code : 180min

CO-2 : Develop the ability to understand and use the architecture to compute and storage cloud, cloud computing.

service and models.

CO-3 : Understand the application in cloud computing.

CO-4 : Learn the key and enabling technologies that help in the development of cloud

CO-5 : Explain the core issues of cloud computing such as resourcemanagement and security.

Section -A # 20 Marks(Short Answer Type Questions)

Attempt ALL the questions. Each Question is of 2 marks ($10 \times 2 = 20 \text{ marks}$)

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8 8	CO4	CO4		CO3		CO3	CO2	CO2	CO1	COI	COx
COS Define the role of the Open Cloud Consortium in cloud standardization (K2)	CO4 What is virtualization, and why is it important in cloud computing?(K2)	CO4 What is HLL? Briefly explain.(K1)	cloud?(K3)	CO3 What is CRM Management, and how does it benefit businesses when hosted on the	purpose.(K2)	CO3 Name any two cloud-based tools used for project management and briefly describe their	CO2 List any two cloud service providers and the services they are known for.(K1)	CO2 What is Software as a Service (SaaS)? Provide one example, (K2)	CO1 What are the differences between public and private clouds?(K2)	COI Define Cloud Computing and mention any two key characteristics of it. (K1)	Q. No. COx Question Description # Attempt ALL the questions. Each Question is of 2 marks

Section – B # 30 Marks (Long / Medium Answer Type Questions)

Attempt ALL the questions. Each Question is of 6 marks($5 \times 6 = 30$ marks)

Q.2 (CO-1): Explain the evolution of Cloud Computing with emphasis on its relationship with parallel and distributed computing.(K3)

Discuss the architecture of Cloud Computing and explain the role of each layer.(K3)

Q.3 (CO-2): Differentiate between Infrastructure as a Service (IaaS) and Platform as a Service (PaaS) with

What is Monitoring as a Service (MaaS)? Discuss its importance with a real-world application.(K2)

Highlight its advantages. (K5) Q.4 (CO-3): Explain how cloud-based email communication is different from traditional email services

OR.

tools used.(K5) Discuss the role of cloud services in task management and event management. Provide examples of

Q.5 (CO-4): Discuss the pros and cons of virtualization in the context of cloud computing. (K4)

Machines (Process VM) with examples (K5) Explain the differences between System Virtual Machines (System VM) and Process Virtual

Q.6 (CO-5): Discuss the importance of standards for security in cloud computing and provide examples.(K5)

Explain the system issues for running a typical parallel program in either aparallel or a distributed manner.(K5)

Section - C #50 Marks (Medium / Long Answer Type Questions)

Attempt ALL the questions. Each Question is of 10 marks.

- Q.7 (CO-1): Attempt any ONE question. Each question is of 10 marks
- key features and use cases.(K4) a. Compare and contrast Eucalyptus, Nimbus, and OpenNebula as cloud platforms, highlighting their
- b. Explain in detail the business models around clouds, such as SaaS, PaaS, and IaaS, with suitable examples.(K5)
- Q.8 (CO-2): Attempt any ONE question. Each question is of 10 marks
- a. Discuss the services offered by major cloud service providers such as Google, Amazon, Microsoft Azure, and IBM. Compare their features and use cases. (K5)
- b. "Salesforce is the world's number one cloud-based CRM platform", Illustrate your answer.(K5)
- Q.9 (CO-3): Attempt any ONE question. Each question is of 10 marks.
- applications. (K5) spreadsheets, and presentations. Explain this statement with examples of popular cloud-based Cloud services provide a collaborative environment for productivity tools such as word processing,
- b. Discuss how social networks and groupware hosted on the cloud enable seamless collaboration among team members. Include examples and use cases.(K4)
- Q.10 (CO-4): Attempt any ONE question. Each question is of 10 marks.
- a. Describe the architecture and features of virtualization tool VMware. (K6)
- b. What is the difference between process virtual machines, host VMMs and native VMMs? (K5)
- Q.11 (CO-5): Attempt any ONE question. Each question is of 10 marks.
- a. What is Google App Engine? Which type of cloud service the Google AppEngine provides?
- Explain how Hadoop is used in cloud environments for big data processing. (K3)