

M.Sc.(IT & CA) Semester - 2 (CBCS) Examination
March/April – 2025 (As Per Syllabus Year-2023)
Cloud Computing (Core)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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- Que.1(A) Answer the following questions. [03]
1) Define cloud computing.
2) List the key characteristics of cloud computing.
3) What are the different cloud deployment models?
- Que.1(B) Answer the following questions. (Any Two) [06]
1) Explain the role of networks in cloud computing.
2) Compare Cloud Computing vs Cluster Computing vs Grid Computing.
3) Discuss the pros and cons of cloud computing.
4) Explain the cloud computing stack and services provided at various levels.
- Que.1(C) Answer the following question. (Any One) [05]
1) Describe the role of open standards in cloud computing.
2) Explain the management and administration of cloud services.
- Que.2(A) Answer the following questions. [03]
1) Define Infrastructure as a Service (IaaS).
2) What is a hypervisor?
3) What is storage as a service?
- Que.2(B) Answer the following questions. (Any Two) [06]
1) Explain the different approaches to virtualization.
2) Discuss the security concerns in cloud computing at the application level.
3) Explain the concept of virtual machine provisioning and manageability.
4) What are the jurisdictional issues raised by data location?
- Que.2(C) Answer the following question. (Any One) [05]
1) Discuss data privacy and security issues in cloud computing.
2) Explain identity and access management in cloud computing.
- Que.3(A) Answer the following questions. [03]
1) What is Platform as a Service (PaaS)?
2) Define Software as a Service (SaaS).
3) What is Web 2.0?
- Que.3(B) Answer the following questions. (Any Two) [06]
1) Explain the role of Service Oriented Architecture (SOA) in cloud computing.
2) Describe cloud platform management and computation.
3) Compare traditional scaling hardware with cloud scaling.
4) Explain Service Level Agreements (SLAs) in cloud computing.
- Que.3(C) Answer the following question. (Any One) [05]
1) Discuss the concept of billing and accounting in cloud computing.
2) Explain database and data stores in the cloud.

- Que.4(A) Answer the following questions. [03]
- 1) Define virtualization technology.
 - 2) List the objectives of virtualization.
 - 3) What are the different types of virtualization?
- Que.4(B) Answer the following questions. (Any Two) [06]
- 1) Explain the different virtualization implementation techniques.
 - 2) Discuss the architecture of a virtual server.
 - 3) Explain the working of VMware in virtualization.
 - 4) Compare Hyper-V and Xen Server.
- Que.4(C) Answer the following question. (Any One) [05]
- 1) Discuss the significance of virtualization in cloud computing.
 - 2) Explain the concept of virtual servers
- Que.5(A) Answer the following questions. [03]
- 1) Name any two open-source cloud platforms.
 - 2) What is Eucalyptus in cloud computing?
 - 3) List the benefits of Microsoft Azure.
- Que.5(B) Answer the following questions. (Any Two) [06]
- 1) Explain the architecture of Amazon EC2.
 - 2) Compare commercial and open-source cloud solutions.
 - 3) Describe the benefits of Microsoft Azure in cloud computing.
 - 4) What is the significance of Eucalyptus in cloud computing?
- Que.5(C) Answer the following question. (Any One) [05]
- 1) Explain cloud security and privacy concerns in commercial clouds.
 - 2) Discuss the key features of open-source cloud solutions.
