

M.Sc.(IT & CA) Semester - 2 (CBCS) Examination
March/April – 2026 (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. Full Form of NIST.
 2. What is Cloud Computing?
 3. Full Form of IaaS.
- Que.1(B) Answer the following questions. (Any Two) (06)
1. Differentiate between Cluster Computing and Grid Computing.
 2. Explain characteristics of Cloud Computing.
 3. Compare traditional client-server architecture with cloud architecture.
 4. Describe the NIST model of Cloud Computing briefly.
- Que.1(C) Answer the following question. (Any One) (05)
1. Discuss advantages and disadvantages of Cloud Computing.
 2. Explain different cloud deployment models with suitable examples.
- Que.2(A) Answer the following questions. (03)
1. Full Form of VM.
 2. Define virtualization.
 3. What is a hypervisor?
- Que.2(B) Answer the following questions. (Any Two) (06)
1. Describe the role of a hypervisor in virtualization.
 2. Explain VM provisioning and manageability.
 3. Describe network level security in cloud computing.
 4. Explain Application level security.
- Que.2(C) Answer the following question. (Any One) (05)
1. Explain Infrastructure as a Service (IaaS) in detail with examples.
 2. Explain data security challenges in cloud computing, including jurisdiction and access control issues.
- Que.3(A) Answer the following questions. (03)
1. Full Form of PaaS.
 2. Full Form of SaaS.
 3. Full Form of SLA.
- Que.3(B) Answer the following questions. (Any Two) (06)
1. Explain Service Oriented Architecture(SOA) in brief.
 2. Explain Web 2.0 in the context of SaaS.
 3. Differentiate between traditional scaling and cloud scaling.
 4. Explain the role of SLAs in cloud service management.
- Que.3(C) Answer the following question. (Any One) (05)
1. Discuss data management in cloud computing, including scalability and large-scale data handling.
 2. Discuss Software as a Service (SaaS) and advantages.
- Que.4(A) Answer the following questions. (03)
1. What is a virtual server?
 2. Full Form of VPS.
 3. Name one virtualization platform.

- Que.4(B) Answer the following questions. (Any Two) (06)
1. Explain the objectives of virtualization.
 2. Discuss different types of virtualization.
 3. Differentiate between Type 1 and Type 2 hypervisors.
 4. Explain VMware in brief.
- Que.4(C) Answer the following question. (Any One) (05)
1. Explain virtualization implementation briefly.
 2. Write down steps to install Hyper-V.
- Que.5(A) Answer the following questions. (03)
1. What is Eucalyptus in cloud computing?
 2. EC2 stands for _____.
 3. Name one service provided by Microsoft Azure.
- Que.5(B) Answer the following questions. (Any Two) (06)
1. Describe key features of Microsoft Azure.
 2. Explain how Amazon EC2 provides scalability.
 3. Describe the use of virtual machines in EC2.
 4. Compare open-source cloud platforms with commercial cloud platforms.
- Que.5(C) Answer the following question. (Any One) (05)
1. Discuss advantages and limitations of open-source cloud platforms like Eucalyptus.
 2. Explain IaaS of Amazon in detail.
