

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF COMPUTER APPLICATIONS
EXAMINATION : MAY/JUNE - 2026
SEMESTER – III
Sub : Cloud Computing (MCA24-303)

Date : 1/06/2026**Total Marks : 60****Time: 2.00 pm To 4.30 pm**

Instruction:

1. All questions are compulsory unless otherwise stated.
 2. Bold figures to the right of every question are the maximum marks for that question.
 3. Candidates are advised to attempt questions in order.
 4. Answers written illegibly are likely to be marked zero.
 5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
 6. Draw neat and labelled diagram wherever necessary.
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Q. 1. Answer the following in 2 - 3 lines. (Any 5) (10)

1. Define HTTP and IP address.
2. Define SAAS.
3. What is utility computing?
4. Define Type 2 hypervisor.
5. Define server.
6. Define Hybrid cloud.
7. Define virtual machine.

Q. 2. Answer the following in short. (Any 4) (20)

1. Explain cloud computing. Describe its essential characteristics.
2. Explain nested virtualization.
3. What is elasticity in cloud computing? Explain with example.
4. Describe vendor lock-in in cloud computing?
5. Explain the risks of cloud computing?
6. Explain snapshot and its use in virtualization

Q. 3. Answer the following in detail. (Any 3) (30)

1. Define virtualization. Explain its types in detail.
 2. Discuss the concept of cloud scalability. Differentiate between vertical and horizontal scaling.
 3. Describe three deployment models in cloud computing.
 4. What is paravirtualization? Discuss its advantages and limitations compared to full virtualization.
 5. Discuss the security challenges in cloud computing. How can these challenges be mitigated?
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