Batch 2024-2025

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF SCIENCE (M.Sc) IN COMPUTER APPLICATIONS
EXAMINATION : DECEMBER - 2025
SEMESTER – III
Sub : Cloud Computing (MSC24-303)

Date :24/12/2025 **Total Marks : 60** **Time: 2.00 pm to 4.30 pm**

Instruction:

1. *All questions are compulsory unless and 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.*

Q. 1. Answer the following in 2 - 3 lines. (Any 5) **(10)**

1. What is elasticity in cloud computing?
2. Define virtualization.
3. Define Type 1 hypervisor.
4. Define Para virtualization.
5. Define RAID.
6. Define Pay per use model.
7. Define FTP and SMTP.

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

1. Explain the concept of snapshots in virtualization**.**
2. Explain the benefits of cloud computing for businesses.
3. What is vendor lock-in in cloud computing?
4. Differentiate between Type 1 and Type 2 hypervisors with examples.
5. Explain resource allocation in virtualization.
6. How does cloud computing support disaster recovery?

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

1. Explain any five types of virtualization.
2. What are the risks or challenges of virtualization?
3. What are the risks or challenges of cloud computing?
4. What is cloud computing? Describe its essential characteristics.
5. Explain cloud computing and its service models. Discuss the advantages and disadvantages of cloud computing.