

**TILAK MAHARASHTRA VIDYAPEETH, PUNE**  
**MASTER OF COMPUTER APPLICATIONS**  
**(Specialization in Cloud Technology)**  
**EXAMINATION :MAY - 2024**  
**SEMESTER - II**  
**Sub: Principles of Virtualization(MCCL 23-205)**

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**Date :27/05/2024**

**Total Marks : 60**

**Time: 10.00 am to 12.30 pm**

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***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.*

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

1. What is virtualization?
2. Explain the concept of Alarm?
3. What is discovery protocol?
4. Explain availability feature of vSphere.
5. How to secure ESXi vCenter server?
6. What is Virtual Distributed switch?
7. What do you know about vMotion?

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

1. Explain Virtual machine manager.
2. What do you mean by template management?Describe.
3. Explain various optimization challenges.
4. Describe DPM in vmware.
5. Explain security features of vmware.
6. Write a note on virtual machine.

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

1. What is hypervisor? Explain various differences between cloud and virtualization.
2. Write in detail about the topology of vSphere datacentre.
3. Describe various storage features in vmware vSphere.
4. Explain in detail platform service controller.
5. Explain in detail about NSX

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