

Name:	
Enrolment No:	

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**  
**Online End Semester Examination, May 2021**

**Course: Cloud Performance Tuning**  
**Program: B. Tech. CCVT**  
**Course Code: CSV4002**

**Semester: IV**  
**Time 03 hrs.**  
**Max. Marks: 100**

**SECTION A**

- 1. Each Question will carry 5 Marks**
- 2. Instruction: Write short answers**

S. No.	Question	CO
Q 1	Explain Consistency and Eventual consistency.	CO2
Q2	Explain one way associative cache.	CO2
Q3	Explain and draw the architecture of Dual Core Processor	CO3
Q4	Explain over committing of CPU for VM's and why do some admins do it.	CO3
Q5	Mention any 3 Hyper-V network performance tweaks.	CO4
Q6	Explain, why PC- power management for computer systems is desirable.	CO1

**SECTION B**

- 1. Each question will carry 10 marks**
- 2. Instruction: Write brief notes**

Q 7	Explain Storage Virtualization and its types and give five reasons to implement it.	CO1
Q 8	Explain different memory optimization steps required for improved performance of Hypervisor and its VM's.	CO3
Q 9	Discuss response time and throughput and how do they affect the wait time.	CO2
Q 10	Explain features of Intel Nehalem Micro Architecture with pictorial diagram.	CO3
Q 11	Explain high availability clustering with active-active and active-passive HAC's.  <p style="text-align: center;">OR</p> Discuss Row fetching, huge pages, UTF8 charset. How these affect performance tuning of Oracle.	CO4

**SECTION C**

**1. Each Question carries 20 Marks.**

**2. Instruction: Write long answer.**

Q12	<p>Discuss at least seven different types of performance tuning mechanisms explaining each in short words and give any five resultant performance tuning benefits.</p> <p style="text-align: center;">Or</p> <p>What is the role of Virtual Machine manager in order to establish the communication with the host machine and client</p>	<b>CO4</b>
-----	--	------------