

<b>Name:</b>	 <b>UPES</b> UNIVERSITY WITH A PURPOSE
<b>Enrolment No:</b>	

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**  
**Online End Semester Examination, Dec 2020**

<b>Course: Cloud Performance Tuning</b> <b>Program: B. Tech. CCVT</b> <b>Course Code: CSV4001</b>	<b>Semester: VII</b> <b>Time 03 hrs.</b> <b>Max. Marks: 100</b>
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**SECTION A**

- 1. Each Question will carry 5 Marks**
- 2. Instruction: Complete the statement / Select the correct answer(s)**

S. No.	Question	CO
Q 1	The ..... Models are based on prediction in order to save the energy cost in .....in the private cloud computing data center. a) Power Consumption and cloud Environment b) Utility Computing and distributed environment. c) Fog Computing and parallel Environment d) Steam Consumption and Cache Environment	<b>CO2</b>
Q2	.....is the heart of Entire network operation.  a) Cache b) L2 Cache c) Server d) None of the Above	<b>CO2</b>
Q3	All the data evenly distributed to all drives a) Raid 0 b) Raid 1 c) Raid 2 d) Raid 3	<b>CO3</b>
Q4	In program Counters Register ( Like Stack , index etc) never in use  a) True b) False	<b>CO3</b>
Q5	Enter the correct statement about KVM. a) device emulation in user space. b) Never Runs with SELinux isolation c) never secure remote management API d) none of the above	<b>CO4</b>
Q6	Emulation is the use of an application program or device to imitate the behavior of another program or device. a) True b) False	<b>CO1</b>

**SECTION B**

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

Q 7	Discuss load balancers and virtualization, explain its utility in the application of the cloud domain in improving performance of an enterprise web application.	<b>CO1</b>
Q 8	Define Dual Core processor and draw the architecture of Dual Core Processor	<b>CO3</b>
Q 9	Discuss multitasking, threading and multi-threading in the operating system with suitable example.	<b>CO2</b>
Q 10	Discuss response time and throughput and how do they affect the wait time.	<b>CO3</b>
Q 11	Explain Consistency, eventual consistency and real time with suitable examples OR Discuss Row fetching, huge pages, UTF8 charset. How these affect performance tuning of Oracle.	<b>CO4</b>

**SECTION C**

- 1. Each Question carries 20 Marks.**
- 2. Instruction: Write long answer.**

Q12	Discuss on high availability clustering with active-active and active-passive HAC's with examples. Or What is the role of Virtual Machine manager in order to establish the communication with the host machine and client	<b>CO4</b>
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