Name: Enrolment No:	

UPES
End Semester Examination, December 2024

Course: MCA   Semester: III
Program: Cloud Security   Time   : 03 hrs.
Course Code: CSCS8008P   Max. Marks: 100

Instructions: Please attempt according to the provided time and given weightage.

<table>
<tr><td colspan="4" align="center">SECTION A
(5Qx4M=20Marks)</td></tr>
<tr><td>S. No.</td><td></td><td>Marks</td><td>CO</td></tr>
<tr><td>Q 1</td><td>Illustrate that how cloud is different from traditional data centers?</td><td>4</td><td>CO1</td></tr>
<tr><td>Q 2</td><td>List the business benefits that can be derived from cloud architecture?</td><td>4</td><td>CO2</td></tr>
<tr><td>Q 3</td><td>Outline the difference between Hypervisor and Containerization in cloud computing?</td><td>4</td><td>CO3</td></tr>
<tr><td>Q 4</td><td>Discuss SECaaS. Outline the limitations(four possible points where hacker can attack) of SECaaS?</td><td>4</td><td>CO4</td></tr>
<tr><td>Q 5</td><td>Write a short note on "Cloud tiering"?</td><td>4</td><td>CO2</td></tr>
<tr><td colspan="4" align="center">SECTION B
(4Qx10M= 40 Marks)</td></tr>
<tr><td>Q 6</td><td>Explain Security Services for application.</td><td>10</td><td>CO4</td></tr>
<tr><td>Q 7</td><td>Interpret your view over "Cloud Computing can save money".</td><td>10</td><td>CO1</td></tr>
<tr><td>Q 8</td><td>Explain the tiers of Data Center and their levels of Security.</td><td>10</td><td>CO2</td></tr>
<tr><td>Q 9</td><td>Discuss the six main technological principles for having a complete trustworthy framework.</td><td>10</td><td>CO3</td></tr>
<tr><td></td><td align="center">OR</td><td></td><td></td></tr>
<tr><td></td><td>Elaborate the different types of Penetration Testing Methods.
Also,explain:

a) Trademarks
b) Copyrights
c) Trade Secrets
d) Patents</td><td>10</td><td>CO3</td></tr>
</table>

	SECTION-C (2Qx20M=40 Marks)		
Q 10	Discuss Cloud Computing Security Architecture with proper diagram.	**20**	**CO4**
Q 11	Define Virtualisation and its types. Also, explain with a diagram how the TEE is better than REE. OR	**20**	**CO3**

	Explain:
	
	  a) ISO 27000 series
	  b) NIST SP 800-53
	  c) CIS Controls
	  d) NIST CSF
	  e) COBIT		