

<b>Name:</b> <b>Enrolment No:</b>		
<b>UNIVERSITY OF PETROLEUM AND ENERGY STUDIES</b> <b>Online End Semester Examination, May 2021</b>		
<b>Course: Back UP&amp;DR</b> <b>Program: B. Tech. (Program Elective)</b> <b>Course Code: CSEG4005P</b>	<b>Semester: VIII</b> <b>Time : 03 hours</b> <b>Max. Marks: 100</b>	
<b>SECTION A</b>		
<b>1. Each Question will carry 5 Marks</b> <b>2. Instruction: Complete the statement / Select the correct answer(s)</b>		
<b>Q1</b>	<p>What is Business Architecture Development?</p> <p>A. We recognize the risks that might be caused by cloud computing application from a business perspective.</p> <p>B. We identify the applications that support the business processes and the technologies required to support enterprise applications and data systems.</p> <p>C. We formulate all kinds of plans that are required to transform the current business to cloud computing modes.</p> <p>D. None of the above</p>	<b>CO1</b>
<b>Q2</b>	<p>Rahul had a server crash on Thursday morning. Rahul performed a backup in which he used the complete backup from Sunday and several other tapes from Monday, Tuesday, and Wednesday. Which tape-backup method was used?</p> <p>A. Full restore</p> <p>B. Mirror restore</p> <p>C. Differential restore</p> <p>D. Incremental restore</p>	<b>CO5</b>
<b>Q3</b>	<p>Arrange the following in correct order in reference to BCP:</p> <ol style="list-style-type: none"> <li>1.Vulnerability Assessment</li> <li>2.Project Initiation</li> <li>3.Detailed Requirement</li> <li>4.BIA</li> <li>5.Plan development</li> <li>6.Implement plan</li> <li>7.Test program</li> <li>8.Maintenance Program</li> </ol> <p>A. 1,2,3,4,5,6,7,8</p>	<b>CO2</b>

	<p>B. 1,2,4,3,5,7,8,6</p> <p>C. 2,1,4,3,5,7,8,6</p> <p>D. 2,1,4,3,5,6,7,8</p>	
Q4	<p>The organization should identify nonconformities, take action to control, contain and correct them, deal with the consequences and evaluate the need for action. What should be the basis for determining the priority of corrective actions?</p> <p>A. Results of the Incident log</p> <p>B. Results of an Internal audit</p> <p>C. Results of the Management review</p> <p>D. Results of the risk assessment and impact analysis</p>	<b>CO4</b>
Q5	<p>_____ includes a list of responsible people who will perform the steps for recovery, inventory for the hardware and software, and steps to recover from a disaster.</p> <p>A. Mitigation</p> <p>B. DRP</p> <p>C. Transference</p> <p>D. Response strategy</p>	<b>CO4</b>
Q6	<p>After a disaster, _____ is the maximum duration of time and a service level within which the recovery procedure must be completed in order to avoid unacceptable consequences associated with a break in business continuity.</p> <p>A. MTD</p> <p>B. RTO</p> <p>C. BCP</p> <p>D. RPO</p>	<b>CO5</b>
<b>SECTION B</b>		
<p><b>1. Each question will carry 10 marks</b></p> <p><b>2. Instruction: Write short / brief notes</b></p>		
Q7	Define Availability and Reliability. Describe the various levels of availability with the help of example.	<b>CO3</b>
Q8	Describe backup application? Write down all the Backup architecture with short description.	<b>CO1</b>
Q9	What is replication? Explain its role in DR. Differentiate between synchronous and asynchronous Replication	<b>CO4</b>
Q10	What is BIA .Write down all the phases? Explain RTO and WRT with proper example.	<b>CO2</b>
Q11	Discuss how can we interpret public disaster recovery or mitigation efforts in terms of cost-benefit analysis	<b>CO5</b>

**OR**

What are the most recent research advances in disaster recovery rescue robotics and autonomous vehicles interconnected via SDN, IoT and Cloud ?

**Section C**

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

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

Q12

Write Down the advantages of digital Data. Also, explain how digital data is stored and transmitted. List all the storage devices along with technology used. Illustrate and compare storage devices with cost and access speed and give comparative differences between them.

**OR**

Explain High availability with reference to the storage. Give the Storage architecture in Cloud Computing. Write down all the RAID levels with proper explanation. Difference between 1+0 and 0+1.

**CO3**