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**Presidency University**

**Bengaluru**

**School Of Computer Science and Engineering & Information Science**

**Summer Term End-Term Examinations, Aug 2024**

**Date**:05-08-2024

**Time**: 9:30AM-12:30PM

**Max Marks**: 100

**Weightage**: 50%

**Odd Semester**: 2023 - 24

**Course Code**: CSE2025

**Course Name**: Business Continuity and Risk Analysis

**Department: CSE**

**Instructions:**

1. *Read the all questions carefully and answer accordingly.*
2. *Do not write any matter on the question paper other than roll number.*

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| **Q.No** | **Questions** | **Marks** | **CO** | **RBT** |
| 1 | 1. Explain the major differences between disaster recovery and business continuity. | 4 | CO1 | L1 |
| 1. Explain direct and indirect expenses associated with disaster recovery. | 6 | CO1 | L2 |
| 1. In 2005, Hurricane Katrina struck the Gulf Coast of the United States, causing widespread devastation. Hancock Bank, headquartered in Mississippi, was directly in the path of the hurricane. How was the bank able to recover from this disaster? | 10 | CO1 | L3 |
| OR | | | | |
| 2 | 1. What is a disaster and explain the types of disasters. | 4 | CO1 | L1 |
| 1. Explain what is a mobile site and what is a hot site. | 6 | CO1 | L2 |
| 1. Explain disaster recovery life cycle in detail with a neat diagram | 10 | CO1 | L3 |

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| 3 | 1. Explain any 5 best practices for disaster recovery | 4 | CO2 | L1 |
| 1. Explain the key components of a business continuity plan. | 6 | CO2 | L2 |
| 1. In 2011, Japan experienced a massive earthquake and tsunami that disrupted supply chains and manufacturing operations across the country. Toyota, one of the world's largest automakers, faced significant challenges. Explain the role of BCP in recovering from this disaster. | 10 | CO2 | L3 |

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| 4 | 1. Define recovery time objective (RTO) and recovery point objective (RPO) with respect to disaster recovery plan | 4 | CO2 | L1 |
| 1. Explain 5 key strategies to maintain business continuity. | 6 | CO2 | L2 |
| 1. Many businesses nowadays rely on Cloud platforms for various operations, explain how cloud computing can support business continuity. | 10 | CO2 | L3 |

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| 5 | 1. What is mean by auditing? Explain briefly the types of audit. | 4 | CO3 | L1 |
| 1. What is risk management? Explain any four strategies of risk mitigation | 6 | CO3 | L2 |
| 1. In May 2017, British Airways (BA) experienced a major IT failure that resulted in the cancellation of hundreds of flights and disrupted the travel plans of thousands of passengers worldwide. The incident was caused by a power surge that affected the airline's data center, leading to the failure of crucial IT systems, including their check-in, baggage handling, and flight operations systems. How did BA respond to this situation and recovered from it. | 10 | CO3 | L3 |

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| 6 | 1. What is a risk? How is the priority of a risk calculated? | 4 | CO3 | L1 |
| 1. What is a risk matrix and a risk register? Explain their roles in contingency planning. How risk level can be used as an indicator of risk impacts? | 6 | CO3 | L2 |
| 1. XYZ Retail Store is considering purchasing insurance coverage for its property to protect against potential damages from fire, theft, and natural disasters. They have estimated the costs associated with purchasing insurance and the potential benefits in terms of mitigated financial losses.   Premium for insurance coverage: $15,000 per year  Potential financial losses from property damage without insurance: $200,000  Likelihood of property damage occurring in a year: 2%  Whether the store should purchase insurance coverage or not. Justify your claim. | 10 | CO3 | L3 |

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| 7 | 1. Your organization has received several proposals from CRM system vendors in response to the RFP. As the acquisition manager, how would you approach the vendor selection process? Additionally, what key considerations would you include in the contract negotiation phase? | 4 | CO4 | L1 |
| 1. Explain the five pillars of Information Assurance. | 6 | CO4 | L2 |
| 1. Your organization has received several proposals from CRM system vendors in response to the RFP. As the acquisition manager, how would you approach the vendor selection process? Additionally, what key considerations would you include in the contract negotiation phase? | 10 | CO4 | L3 |

OR

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| 8 | 1. Briefly explain the steps involved in security test and evaluation (ST&E). | 4 | CO4 | L1 |
| 1. Define security requirements. Why information categorization is important when planning for information security for your organization? | 6 | CO4 | L2 |
| 1. Your organization is planning to acquire a new Customer Relationship Management (CRM) system to improve customer interactions and streamline sales processes. As the acquisition manager, you are tasked with initiating the Request For Proposal (RFP) process. What key steps and considerations would you include in the RFP to ensure a successful acquisition? | 10 | CO4 | L3 |

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| 9 | 1. Why is a DR plan important. Explain briefly. | 4 | CO1 | L1 |
| 1. Why monitoring and evaluation (M&E) is important during disaster recovery. | 6 | CO1 | L2 |
| 1. Flash floods and landslides in June 2013 severely impacted the state of Uttarakhand. Thousands of people were stranded, and infrastructure, including roads and bridges, was damaged. Explain the recovery plan applied in this case. | 10 | CO1 | L3 |

OR

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| 10 | 1. What is mean by business continuity. What is a project kick-off meeting? | 4 | CO2 | L1 |
| 1. What is crisis communication plan? What significant role it plays during disaster recovery? | 6 | CO2 | L2 |
| 1. Explain occupant emergency plan and emergency response plan. | 10 | CO2 | L3 |