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 **PRESIDENCY UNIVERSITY**

  **Bengaluru**

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| **End - Term Examinations – JANUARY 2025** |
| Date: 07 -01- 2025 Time: 09:30 am – 12:30 pm |

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| **School:** SOCSE | **Program:** B. Tech - CSE/CSD |
| **Course Code :** CSE2025 | **Course Name :** BUSINESS CONTINUITY AND RISK ANALYSIS |
| **Semester**: VII | **Max Marks**:100 | **Weightage**: 50% |

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| **CO - Levels** | **CO1** | **CO2** | **CO3** | **CO4** | **CO5** |
| **Marks** | **26** | **26** | **24** | **24** | **NA** |

**Instructions:**

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

**Part A**

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| **Answer ALL the Questions. Each question carries 2marks. 10Q x 2M=20M** |
| **1** | Define man made disasters with examples. | **2 Marks** | **L1** | **CO1** |
| **2** | List advantages of having a disaster recovery plan. | **2 Marks** | **L1** | **CO1** |
| **3** | List any two the side effects of a disaster  | **2 Marks** | **L1** | **CO1** |
| **4** | What is DRaaS (Disaster Recovery as a Service)? | **2 Marks** | **L1** | **CO2** |
| **5** | Define business impact analysis. | **2 Marks** | **L1** | **CO2** |
| **6** | Define audit. | **2 Marks** | **L1** | **CO2** |
| **7** | List any two responsibilities of chief risk officer (CRO) | **2 Marks** | **L1** | **CO3** |
| **8** | Define access control.  | **2 Marks** | **L1** | **CO3** |
| **9** | List a few security controls.  | **2 Marks** | **L1** | **CO4** |
| **10** | Define RPO in business continuity? | **2 Marks** | **L1** | **CO4** |

**Part B**

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| **Answer the Questions Total 80 Marks.** |
| **11.** | **a.** | Explain the major roles and responsibilities of disaster recovery teams. | **10 Marks** | **L2** | **CO1** |
|  | **b.**  | How does a disaster recovery plan work? Develop a disaster recovery plan involving 6Rs of recovery cycle.  | **10 Marks** | **L3** | **CO1** |
| **Or** |
| **12.** | **a.** | Explain the “try before you buy” and “divide and conquer” strategies for IT disaster recovery.  | **10 Marks** | **L2** | **CO1** |
|  | **b.** | 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. Develop a disaster recovery plan to be applied in the above case.  | **10 Marks** | **L3** | **CO1** |
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| **13.** | **a.** | Explain hot sites, cold sites, warm sites and mirrored sites.  | **10 Marks** | **L2** | **CO2** |
|  | **b** | Assume that a company’s website is being hacked. You have to draft a press release to inform public and the media. Message should be transparent, timely and reassuring. | **10 Marks** | **L3** | **CO2** |
| **Or** |
| **14.** | **a.** | Why are backups important? Explain the factors to be considered when choosing an off-site backup location. | **10 Marks** | **L2** | **CO2** |
|  | **b.** | 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. Develop a business continuity plan that will help companies resolve issues in such cases.  | **10 Marks** | **L3** | **CO2** |

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| **15.** | **a.** | What is risk appetite? Explain the various risk mitigation strategies that could be used to reduce the impact of the risk on the operations of an organization.  | **10 Marks** | **L2** | **CO3** |
|  | **b.** | In the early 1990s, IBM was facing significant challenges as the technology landscape rapidly evolved, and new competitors emerged. The company was known for its dominance in mainframe computers, but with the rise of personal computers and the increasing popularity of software applications, IBM's traditional business model was being disrupted. What was the risk management and business continuity planning that IBM implemented to adapt to changing customer demands.  | **10 Marks** | **L3** | **CO3** |
| **Or** |
| **16.** | **a.** | Explain the significance of having employee training and awareness, regular backups, and security audits and pen testing for your organization as part of cyber security risk measures. | **10 Marks** | **L2** | **CO3** |
|  | **b.**  | A company's website is at risk of a cyber-attack, which could result in financial losses. The estimated probability of a successful cyber-attack occurring within a year is 0.07 (7%), and the potential financial loss per incident is estimated to be $100,000. Calculate the Annual Loss Expectancy (ALE) for this risk. | **10 Marks** | **L3** | **CO3** |

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| **17.** | **a.** | What is RPA? What are the advantages of using automated security tools.  | **10 Marks** | **L2** | **CO4** |
|  | **b.**  | The CRM system has been successfully implemented, and your organization is now entering the post-implementation phase. What steps would you take to conduct a thorough post-implementation review, and how would you use the findings to improve future system acquisitions? | **10 Marks** | **L3** | **CO4** |
| **Or** |
| **18.** | **a.** | What is mean by information categorization? Explain the steps involved in the classification process.  | **10 Marks** | **L2** | **CO4** |
|  | **b.**  | 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 Marks** | **L3** | **CO4** |

**\*\*\*\*\* BEST WISHES \*\*\*\*\***