| Roll No. | | | | | | | | | | | | |
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# PRESIDENCY UNIVERSITY

**BENGALURU**

## Mid - Term Examinations –October 2025

**Date:** 29-10-2025 **Time:** 02.30pm to 04.00pm

| | | |
|---|---|---|
| **School:** SOCSE/SOE | **Program:** B.Tech CSD | |
| **Course Code:** CSD3401 | **Course Name:** Business Continuity and Risk Analysis for Data Science | |
| **Semester**: VII | **Max Marks:**50 | **Weightage**:25% |

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

**Instructions:**

*(i) Read all questions carefully and answer accordingly.*

*(ii) Do not write anything on the question paper other than roll number.*

## Part A

**Answer ALL the Questions. Each question carries 2marks.** **5Q x 2M=10M**

| | | | | |
|---|---|---|---|---|
| **1** | Define BCP. | **2 Marks** | **L1** | **CO1** |
| **2** | Expand CIRP and COOP | **2 Marks** | **L1** | **CO1** |
| **3** | List the goals of BCP. | **2 Marks** | **L1** | **CO1** |
| **4** | Name any four tools and techniques used in risk management. | **2 Marks** | **L1** | **CO2** |
| **5** | What is the use of Business Impact Analysis? | **2 Marks** | **L1** | **CO2** |

## Part B

**Answer the Questions.** **Total Marks 40M**

| | | | | | |
|---|---|---|---|---|---|
| **6.** | **a.** | Organizations often prioritize technology recovery in BCP but overlook people, processes, and facilities. Evaluate how including all components holistically ensures true resilience. | **10 Marks** | **L3** | **CO1** |
| | **b.** | Both BCP and SDLC involve structured processes, planning, and evaluation, yet their objectives differ significantly. compare BCP and SDLC and also List the goals of BCP with diagram. | **10 Marks** | **L3** | **CO1** |
| | | **Or** | | | |

| | | | | | |
|---|---|---|---|---|---|
| **7.** | **a.** | Assume you are the business continuity manager of a retail organization. Draw the ISO 22301 BCP diagram. | **10 Marks** | **L3** | **CO1** |
| | **b.** | Different BCP organizational structures define roles and responsibilities differently. Critically analyze how the choice of a particular BCP organizational structure can impact the effectiveness of business continuity during a major disruption. [ANY 4 Structure]. | **10 Marks** | **L3** | **CO1** |

| | | | | | |
|---|---|---|---|---|---|
| **8.** | **a.** | A software development project has identified several potential security vulnerabilities that could lead to data breaches. The project team has assessed the likelihood and potential impact of each vulnerability. Calculate the risk exposure for each vulnerability. | **10 Marks** | **L3** | **CO2** |

| Vulnerability | Likelihood | Impact(Loss) | Risk Exposure |
|---|---|---|---|
| Vulnerability1 | 0.10 | $150000 | |
| Vulnerability2 | 0.25 | $200000 | |
| Vulnerability3 | 0.18 | $500000 | |
| Vulnerability4 | 0.36 | $400000 | |
| Vulnerability5 | 0.57 | $970000 | |
| Vulnerability6 | 0.27 | $840000 | |
| Vulnerability7 | 0.50 | $340000 | |
| Vulnerability8 | 0.28 | $120000 | |
| Vulnerability9 | 0.56 | $250000 | |
| Vulnerability10 | 0.87 | $650000 | |

| | | | | | |
|---|---|---|---|---|---|
| | **b.** | Assume you are the risk manager of a mid-sized IT firm. Explain step-by-step how you would implement a risk management process. | **10 Marks** | **L3** | **CO2** |
| | | **Or** | | | |
| **9.** | **a.** | In Business Impact Analysis, identifying key business processes is often influenced by organizational perception rather than objective data. Discuss how cognitive bias, departmental silos, and lack of cross-functional communication can lead to incorrect prioritization of critical processes. Suggest methods to overcome these issues." | **10 Marks** | **L3** | **CO2** |
| | **b.** | You have been assigned to create a BIA report for a mid-sized IT firm. Explain, with justification, how you would identify critical business processes, determine their interdependencies, and prioritize recovery objectives. Support your answer with a realistic example. | **10 Marks** | **L3** | **CO2** |