

Roll No



**PRESIDENCY UNIVERSITY  
BENGALURU**

**SCHOOL OF ENGINEERING  
END TERM EXAMINATION - JAN 2024**

**Semester :** Semester VII - 2020

**Course Code :** CSE2025

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

**Program :** B.Tech. Computer Science and Engineering

**Date :** 03-JAN-2024

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

**Max Marks :** 100

**Weightage :** 50%

**Instructions:**

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.
- (iv) Do not write any information on the question paper other than Roll Number.

**PART A**

**ANSWER ALL THE QUESTIONS**

**5 X 2M = 10M**

1. Give two uses of DR plan. (CO1) [Knowledge]
2. write down two differences between disaster recovery and business continuity. (CO2) [Knowledge]
3. Define single loss expectancy. (CO3) [Knowledge]
4. What do risk tolerance and risk appetite indicates. (CO4) [Knowledge]
5. What is the purpose of having system acquisition policies and procedures in an organization. (CO4) [Knowledge]

**PART B**

**ANSWER ALL THE QUESTIONS**

**5 X 10M = 50M**

6. Explain the Operational Cycle of Disaster Recovery (CO1) [Comprehension]
7. what is mean by contingency planning? Describe in detail different types of contingency planning. (CO2) [Comprehension]
8. Define a risk matrix and a risk register. Explain quantitative risk assessment with an example. (CO3) [Comprehension]

9. Justify why security testing and evaluation (ST&E) is a critical process in the field of cyber security. Explain the key steps involved in ST&E process.

(CO4) [Comprehension]

10. A software development company is tasked with creating a new e-commerce platform for a client. The project involves a tight deadline, and the development team must integrate various third-party APIs for payment processing and inventory management.

what are the key risks identified? what are the risk management approaches that can be applied for the identified risks?

(CO4) [Comprehension]

### **PART C**

**ANSWER ALL THE QUESTIONS**

**2 X 20M = 40M**

11. What are risk analysis policies ? why are they essential? List the guidelines for risk analysis policies development.

A technology company is planning to implement a major IT project to upgrade its core infrastructure. The project involves migrating to a new cloud platform, updating software systems, and introducing new cybersecurity measures. Explain how risk analysis policies would be applied in this scenario.

(CO4) [Application]

12. Your organization relies heavily on a critical IT system for daily operations. Unexpectedly, the system experiences a major outage, disrupting key business functions.

1. What immediate steps would you take to address the IT system outage and minimize the impact on ongoing operations?
2. How would you communicate with stakeholders, including employees, customers, and partners, during the outage?
3. Following the resolution of the outage, what steps would you take to review and improve the organization's business continuity plan to prevent similar incidents in the future?

(CO2) [Application]